OK

HUSKY OIL NPR OPERATIONS, INC.
U.S. GEOLOGICAL SURVEY/ONPRA

CONVENTIONAL CORE DESCRIPTION FORM

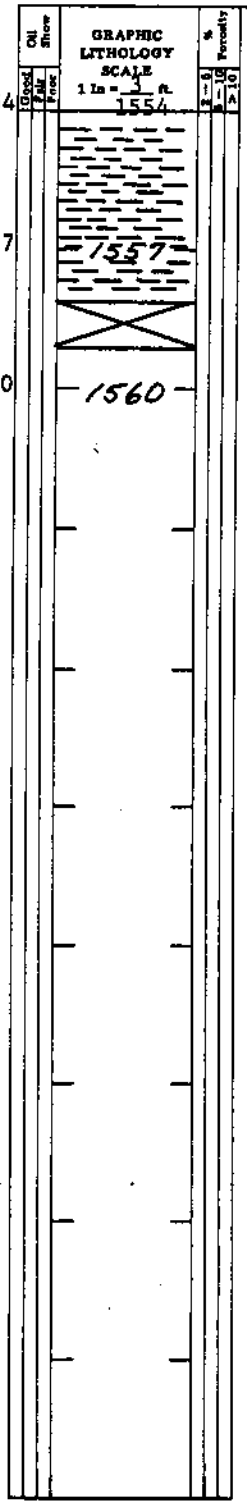
Well: LISBURNE TEST WELL # 1 Core No: 1

Date: 7/3/79 T.D. 1558.8'

Interval Cored: 1554.1 - 1558.8 (jammed) Formation: Fortress Mtn.

Recovery: 4' (85%) Core Diameter: 4¼" Inches

GENERALIZED CORE DESCRIPTION: Shale, dark gray, hard, rare carbonaceous material.



DETAILED CORE DESCRIPTION
Prepared By R.A. Wermeyer

Shale, dark gray, hard, rr carbonaceous material, micro-pyritic, micro-micaceous, highly fragmented & slickensided.

Note: This core very highly fragmented with the individual pieces showing slickensides. Largest pieces only 2"-3" long and only 1"-2" wide. Due to the fragmented nature of the core it caused the core to jam. Fragmentation was probably due to faulting.

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CONVENTIONAL CORE DESCRIPTION FORM

Well: Lisburne No. 1 Core No: 2

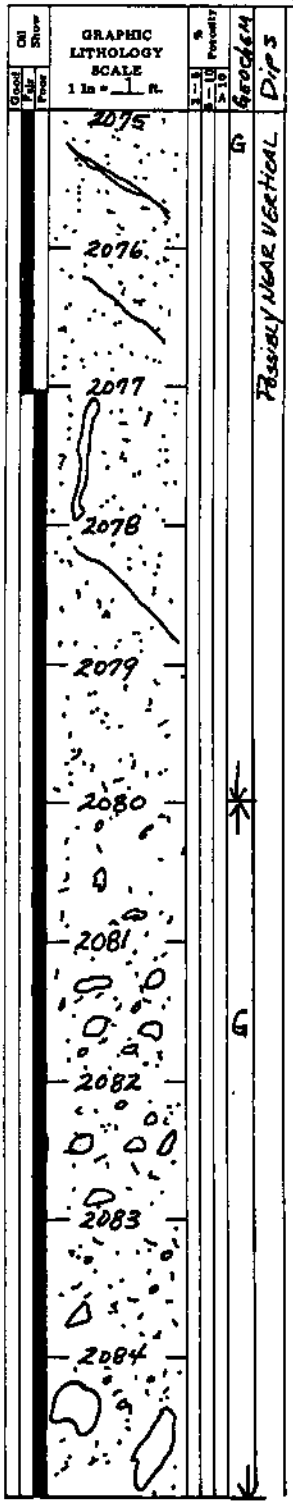
Date: July 7, 1979 T.D. 2090.5'

Interval Cored: 2075'-2090.5' Formation: Fortress Mtn.

Recovery: 100 % Core Diameter: 4½" Inches

GENERALIZED CORE DESCRIPTION: Gray Sandstone with common dark gray shale clasts, rare Ls clasts, occasional traces of oil & gas on fractures and in rare small vugs.

#2



DETAILED CORE DESCRIPTION
Prepared By D.B. Young

2075
Sandstone, light gray, hard, fine-medium grained poorly sorted, lt. gray, green, black, white, few closed fracs; dip 45 deg.; black asph. & sl. brn. oil stn w/ oil odor & good yel fluor; frac. calcite filled with sl. por. dev.

2076.5'
thin bed of asph. on frac plane; verrical green shale strg.; Small shale clasts; some slump deformation.

2080
Sandstone, light gray, hard, fine-med. grained, poorly sorted, white, light gray, clear, green rarely orange with occasional shale clasts; Rare trace bleeding oil & gas.

2081
Sandstone, light gray, becoming very coarse grained - pebbly, poorly sorted, subangular-subrounded; with few large gray shale and brown limestone clasts 2" by 3/4"

2084'
Sandstone as above with increasingly large Shale and Limestone clasts 6" by 6"; occasional patch oil stain on breaks; non-effective por.

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CONVENTIONAL CORE DESCRIPTION FORM

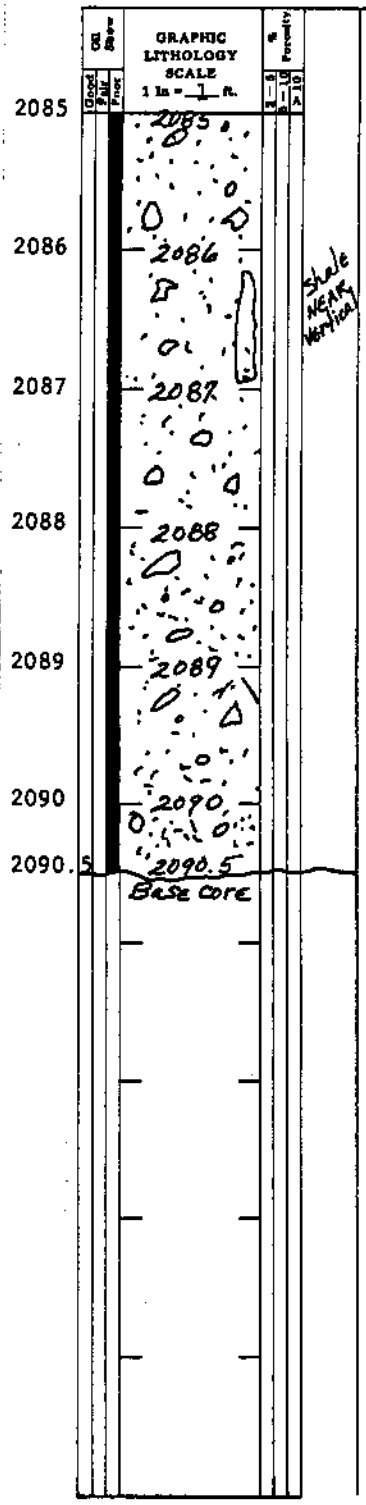
Well: LISBURNE No. 1 Core No: 2

Date: July 7, 1979 T.D. 2090.5'

Interval Cored: 2075'-2090.5' Formation: Fortress Mtn.

Recovery: 100% Core Diameter: 4¾" Inches

GENERALIZED CORE DESCRIPTION:



DETAILED CORE DESCRIPTION
Prepared By D.B. Young

2087

Sandstone as above w/ sub-horizontal partly calcite-filled fractures with bleeding oil & gas; few vugs with oil with good yellow fluor.; black oil stain; tight; slight porosity developed on fractures and in rare vugs = non-effective.

2089

Sandstone, medium-coarse grained, hard, tight, rare vugs w/ trace oil stain; occasional Shale and limestone clasts, light gray green, gray, clear, white, black, rarely pink quartz and chert grains with siliceous cement and occasional calcite patch or tracture filling.

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CONVENTIONAL CORE DESCRIPTION FORM

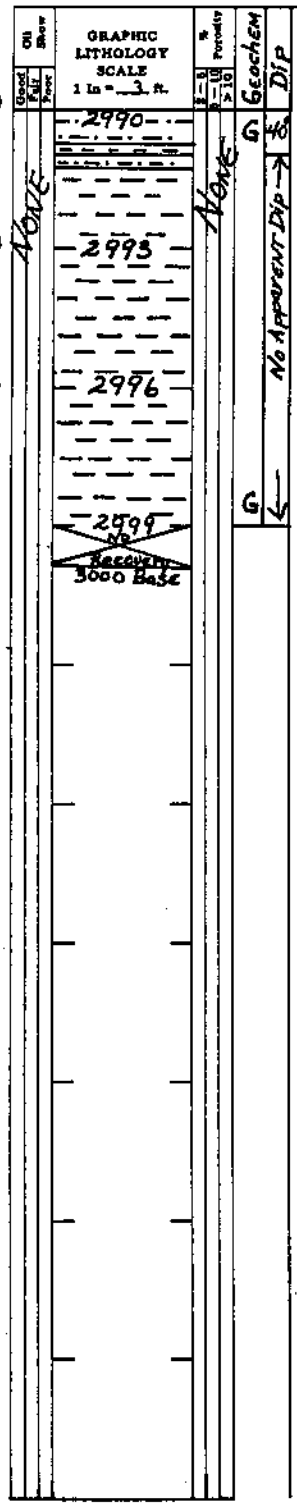
Well: LISBURNE No. 1 Core No: 3

Date: 7/12/79 T.D. 3000'

Interval Cored: 2990' - 3000' Formation: FORTRESS MOUNTAIN

Recovery: Cut 10', Recovered 9' Core Diameter: 4½" Inches

GENERALIZED CORE DESCRIPTION: Interlaminated gray siltstone and Shale becoming massive m. dark gray at 2991', common slickensided and calcite-filled near vertical fractures.



DETAILED CORE DESCRIPTION

Prepared By D.B. Young

2990'-2991' Siltstone, m. gray, hard; with interlaminated Shale, dark gray, hard, bedding dip of ~40 deg.; near vertical fractures are commonly slickensided; some are calcite filled.

2991'-2999' Shale, medium-dark gray, hard, silty, commonly slickensided; near vertical fractures; some calcite-filled fractures.

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CONVENTIONAL CORE DESCRIPTION FORM

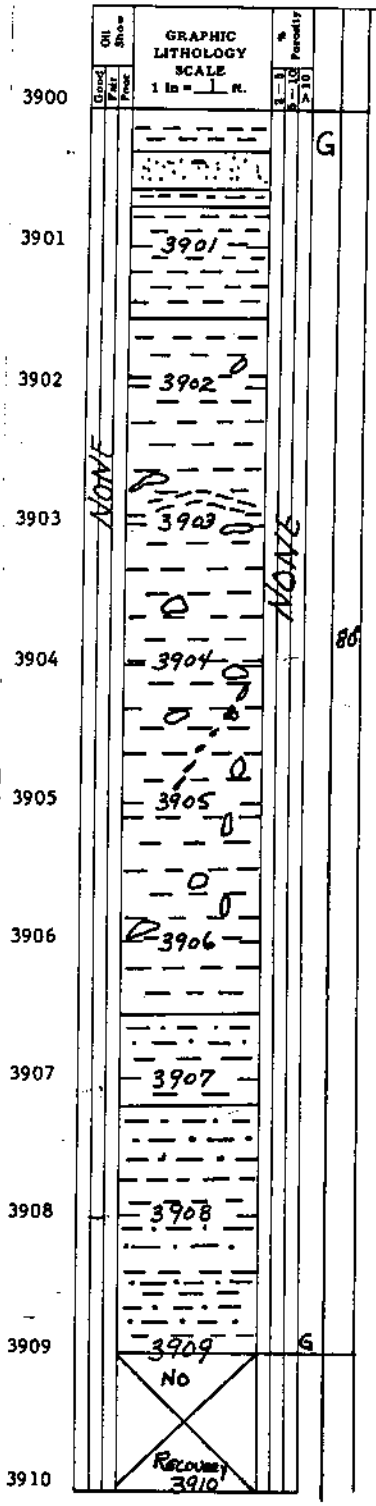
Well: LISBURNE No. 1 Core No: 4

Date: 7-19-79 T.D. 3910'

Interval Cored: 3900'-3910' Formation: FORTRESS MOUNTAIN

Recovery: 9' (90%) Core Diameter: 4 Inches

GENERALIZED CORE DESCRIPTION: Interbedded gray, green-gray shale and siltstone with common siltstone lithiclasts, commonly slickensided, with poorly developed bedding dips of approximately 80 degrees.



DETAILED CORE DESCRIPTION
Prepared By D.B. Young

3900'-3900.3' Shale, medium-dark gray, medium hard.

3900.3'-3900.7' Sandstone, light gray, v.f.g., hd;grds.to pt. to Sltst.

3900.7'-3901.5' Shale, med.-dk. gy, hard.

3901.5'-3906.5' Sh., dk. gy. w/grn mott., grn-gy, subfissile; comm. sml pbl - cobblesize lithiclasts consist of m. gy. skd., subang. Sltst; common slickensides; poor bedding dips approx. 80 degrees; some deformation of beds at 3903'; com. frac.; rr pyr. coated Sltst. nodule w/sheared pyr. xls.
tr. poss. dd o. stn. on closed fracs.

3906.5'-3909' Sltst., m. gy., hd.; intbd. w/Sh., m.-dk. gy., m. hd., hi. slickensided; common closed frac. w/poss. dead o. stn. on faces.

3909'-3910' No recovery

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CONVENTIONAL CORE DESCRIPTION FORM

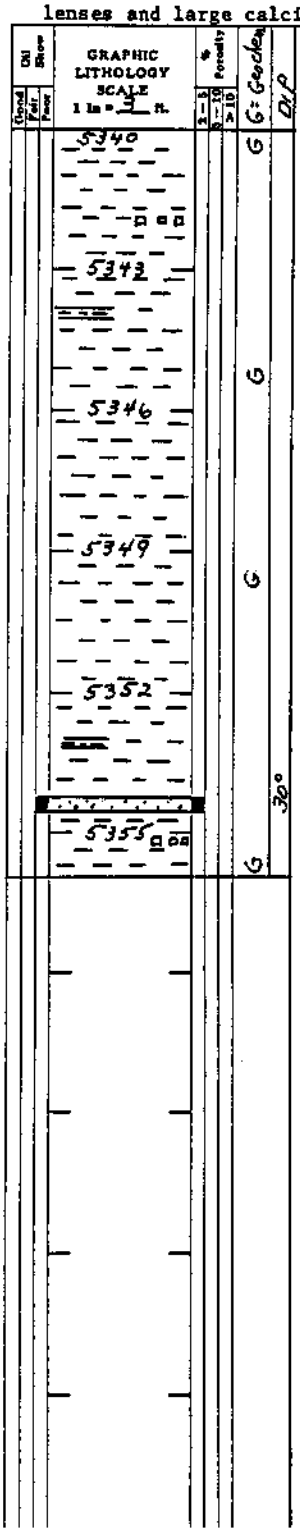
Well: LISBURNE NO. 1 Core No: 5

Date: 8/5/79 T.D. 4356'

Interval Cored: 5340' - 5356' Formation: Okpikruak ?

Recovery: 16' 100% Core Diameter: 4 Inches

GENERALIZED CORE DESCRIPTION: dark-gray fractured shale with thin stringers of siltstone and a thin bed of calcareous sandstone with dip of 30°, occasional pyrite lenses and large calcite-filled fractures, commonly slickensided



DETAILED CORE DESCRIPTION

Prepared By D. B. Young

5340-5354.2 shale, dark gray, hard, brittle, highly crushed, slickensided, slightly silty, slightly calcareous; siltstone nods; pyrite lenses; some calcite-filled fracs.

5354.2-5354.5 sandstone, tan, medium-coarse grained, with tan calcite cement, rare fossil - possibly crinoid, subrounded, clear quartz, tan clay mineral (prob. altered chert); excellent dip of 30°; fair gas odor on fresh break, slight yellow cut fluor., nil to very slight porosity, large calcite-filled fracture dips 70°

5354.5-5356 shale as at 5340

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CONVENTIONAL CORE DESCRIPTION FORM

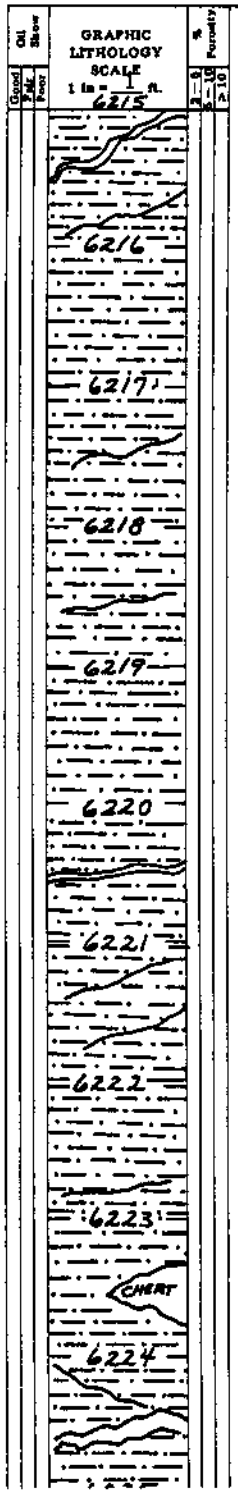
Well: LISBURNE TEST WELL #1 Core No: 6

Date: 8/10/79 T.D. 6225'

Interval Cored: 6215' - 6225' Formation: Fortress Mtn./ Okpikruak Undiff.

Recovery: 10.0' (100%) Core Diameter: 4½ Inches

GENERALIZED CORE DESCRIPTION: Sltst., dk. gy., w/pale green contorted Clyst., scat. chert frags.; core frac. and slickensided.



DETAILED CORE DESCRIPTION
Prepared By R. Wermeyer

6215 - 6225 Siltstone, dk. gy., firm to mod. hard, micro-mic., loc. pyrite nodules, scat frac. sealed with calcite, freq. frac. & slicked w/ frac varying 0 deg. to 40 deg. rarely 50 degrees: Angular chert inclus. variable 5 mm to 10 mm, very rarely 70 by 100 mm, common slump structures of olive-green and pale green claystone occasionally contorted particularly in intervals 6215-16', 6217-18', 6222-23, and 6224-25', lenses and pods freq. offset by hairline fracs. Core tends to break into small slickensided frags. Scattered blk. tarry or asphaltic residue along w/f. fracs w/pale yel. fluor., pale whitish fluor. cut. Rarely shows bleeding gas along fracs. Occ. pods and lenses Ss., lt. gy., v.f.grn., SA/SR, mod. srtd., m. to hd., mod. cmtd., calc., p. por., N.S. Sh., dk. gy., mod. hd., occ. calcite veinlets, in pt. Sil. appear.; prob. grds. in pt. to chert.

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U.S. GEOLOGICAL SURVEY/ONPRA

CONVENTIONAL CORE DESCRIPTION FORM

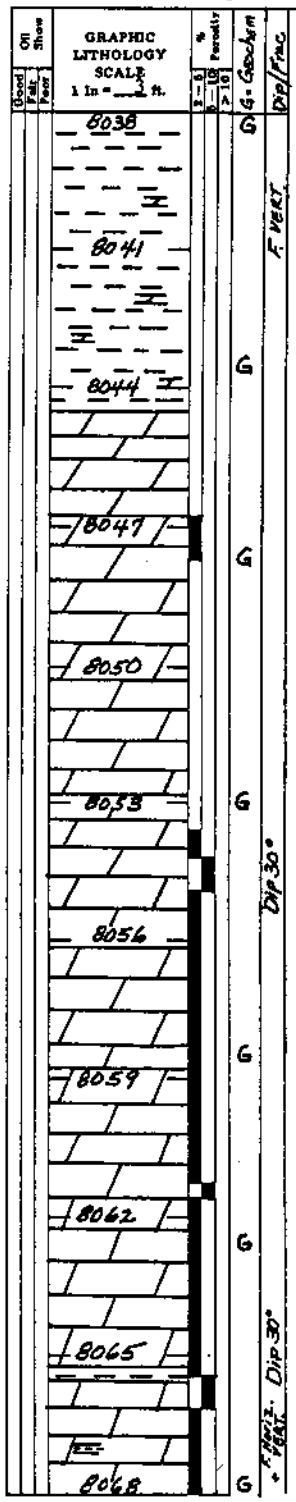
Well: LISBURNE No. 1 Core No: 7

Date: 12/4/79 T.D. 8068'

Interval Cored: 30' (8038'-8068') Formation: Lisburne

Recovery: 30' (100%) Core Diameter: 4 Inches

GENERALIZED CORE DESCRIPTION: Dark gray dolomitic Shale, changing at 8044.5' to massive brown-white mottled dolomite with poor scattered porosity, fair slightly sour gas odor and slight bleeding gas; poor dips and breakage of ≈30 degrees.



DETAILED CORE DESCRIPTION
Prepared By D.B. Young

8038-8044.5' Shale, dark gray, hard, dolomitic in part, siliceous; with patches of brown dolomite; rare near-vertical calcite-filled fractures rarely partly open; traces of black dead oil stain; gassy odor on fresh breaks; no apparent dip.

8044.5'-8065.5' Dolomite, gray-brown-white, mottled, calcareous; with nil to slight porosity, pinpoint to 5 mm vugs; slighrly sour gas odor; spotty bleeding gas; poorly developed dips occur at 8055-56' of approximately 30 degrees; common poorly preserved Crinoid stems indicate probable bioclastic packstone; No stain, no cut, no fluorescence.

8065.5'-8068' Dolomite, brown-white; interbedded with Shale, dark gray; slightly brecciated with dark stain on healed vertical microfractures; poorly developed breakage and bedding plane of approximately 30 degrees several large vugs .5cm - 5 cm partly filled with medium crystalline sucrosic dolomite; poorly developed partly open near-horizontal frac ; fair gas odor; no cut, no fluor.

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U.S. GEOLOGICAL SURVEY/ONPRA

CONVENTIONAL CORE DESCRIPTION FORM

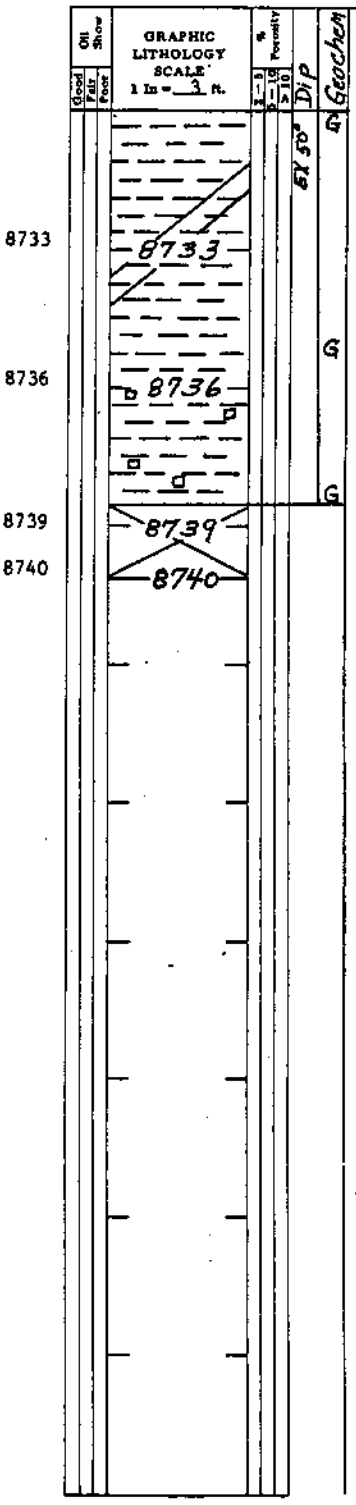
Well: LISBURNE #1 Core No: 8

Date: 12/12/79 T.D. 8740'

Interval Cored: 8730'-8740' (10') Formation: Lisburne/ Okpikruak

Recovery: 8.5' (85%) Core Diameter: 4 Inches

GENERALIZED CORE DESCRIPTION: Shale, varicolored, very dark brown, black, very dark brown, very dark gray, common gilsonite veinlets and pods, fractured and slicked w/gilsonite along most slippage planes.



DETAILED CORE DESCRIPTION

Prepared By R.A. Wermeyer

8730-8731' Shale, dark gray brown, well compacted, blocky to sub-fissile, inpart subconchoidal fracture, common gilsonite veinlets.

8731'-8734' Shale, very dark gray to black, hard, well compacted, with gilsonite along slicked fractures and parting planes of highly variable dip to maximum of 60 degrees, with excellent dip @ 8732' of 50 degrees, becomes slighrly earthy 8731.5'-8733'.

8734'-8735' Shale, very dark brown, hard, siliceous, common to abundant gilsonite along fractures and cleavage planes, micro-micaceous.

8735'-8736' Shale, black as above.

8736'-8738.5' Shale, very dark gray brown, hard, well compacted, pseudo-siliceous, micro-pyritic, commonly slicked and fractured, scattered to common gilsonite, rare to scattered pyrite pods.

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CONVENTIONAL CORE DESCRIPTION FORM

Well: LISBURNE No. 1 Core No: 9

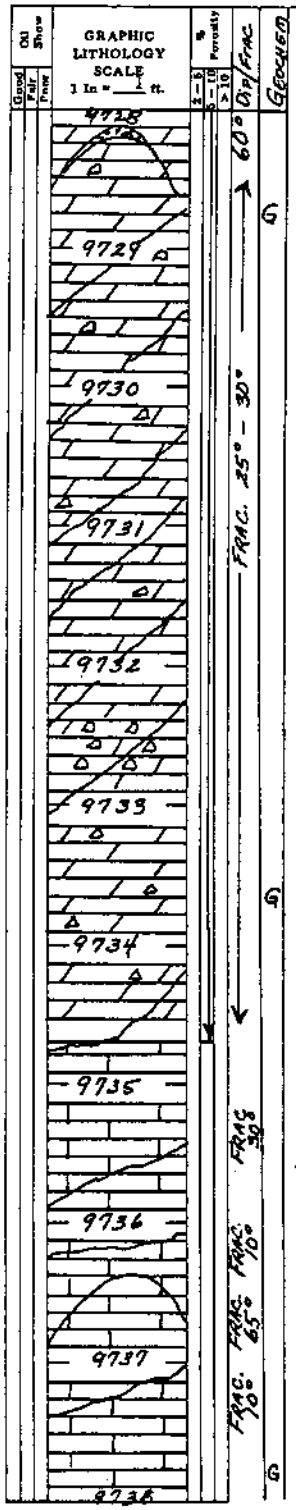
Date: 12/24/79 T.D. 9738'

Interval Cored: 9728'-9738' Formation: Lisburne

Recovery: 10' (100%) Core Diameter: 4 Inches

GENERALIZED CORE DESCRIPTION: Dolomite, very dark brown, v.f. crystalline, micro-sucrosic, scattered recrystallized fossil debris, common sealed fractures and limestone, mottled light and dark brown, slightly dolomitic, very coarse crystalline, occ. slicked or sealed fracture.

#9



DETAILED CORE DESCRIPTION
Prepared By R.A. Wermeyer

9728.0-9734.8 Dolomite, very dark brown, very finely crystalline, very hard with small black chert nodules to 1/2" and occas. bed to 1", common bituminous (?) material enclosing grains, scattered closed fractures sealed with bituminous (?) material, randomly oriented with fracture and cavity at 9728' lined with euhedral calcite and quartz crystals and at 9732.5 lined with calcite and possible quartz crystals; angle of dip @ 9728' 60 degrees, slickensided fractures@ varying depths dipping 25 to 30 degrees; abundant randomly oriented hairline fractures sealed with calcite and abundant re-crystallized fossil debris in interval 9733-9734.8. Rare re-crystallized crinoid fragments.

Faint suggestion of sedimentary structures including possible current ripples. Crystal size suggests original material siltstone replaced by dolomite. Silica replacement prior to or subsequent to dolomitization to form chert nodules and beds.

9734.8-9738.0 Abrupt contact with overlying dolomite. Limestone, slightly dolomitic, mottled light and dark brown, very coarsely crystalline, predominantly re-crystallized lime mud, rare fossil debris, rare re-crystallized crinoid fragments, appears very argillaceous (?) between 9736.0 - 9736.3. High-angle calcite-sealed fracture at 9736.5' dipping 65 degrees, slickensided fracture at 9735.8 dipping 35 degrees and at 9736.2' dipping 10 degrees and several horizontal bituminous (?) sealed fractures at 9736'

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CONVENTIONAL CORE DESCRIPTION FORM

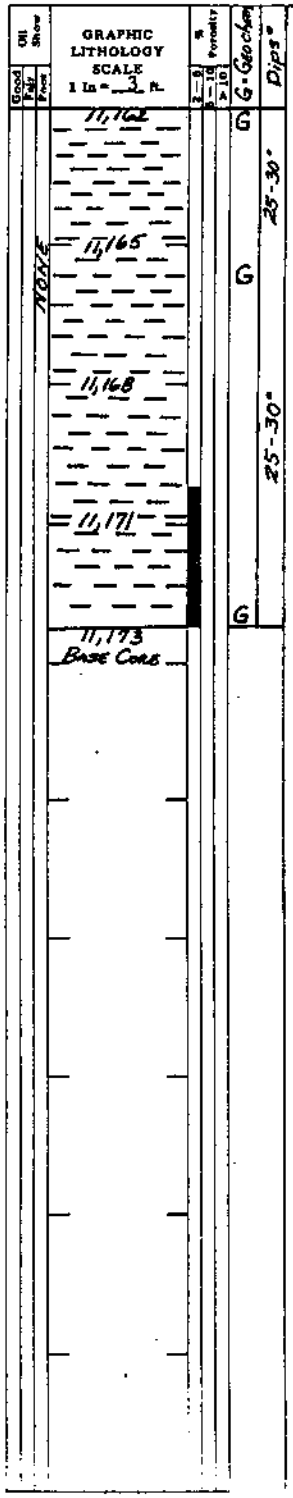
Well: LISBURNE No. 1 Core No: 10

Date: 1/11/80 T.D. 11,173'

Interval Cored: 11,162' - 11,173' Formation: Shublik (?)

Recovery: 100% Core Diameter: 4 Inches

GENERALIZED CORE DESCRIPTION: Massive dark gray-black intercalated Shale with 30 degree dips, becomes highly fractured at 11,170' with open drusy cavities and calcite-filled fractures.



DETAILED CORE DESCRIPTION

Prepared By D.B. Young

11,162'-11,167' Shale, dark gray-black, hard, slightly calcareous, siliceous, slightly contorted microlaminations, rare small closed calcite vein, occasional patch of black chert.

11,167' - 11,170' Shale, as above with thin calcite lamination on bedding planes becoming common.

11,170' - 11,173' Shale, dark gray to black as above becoming highly fractured with large random calcite-filled fractures; Some are partly open and are lined with euhedral drusy calcite, common large vertical slickensides and some bedding-plane slickensides occur; some possible graphite, no odor, no shows of oil or gas, few small bubbles.

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CONVENTIONAL CORE DESCRIPTION FORM

Well: LISBURNE No. 1 Core No: 11

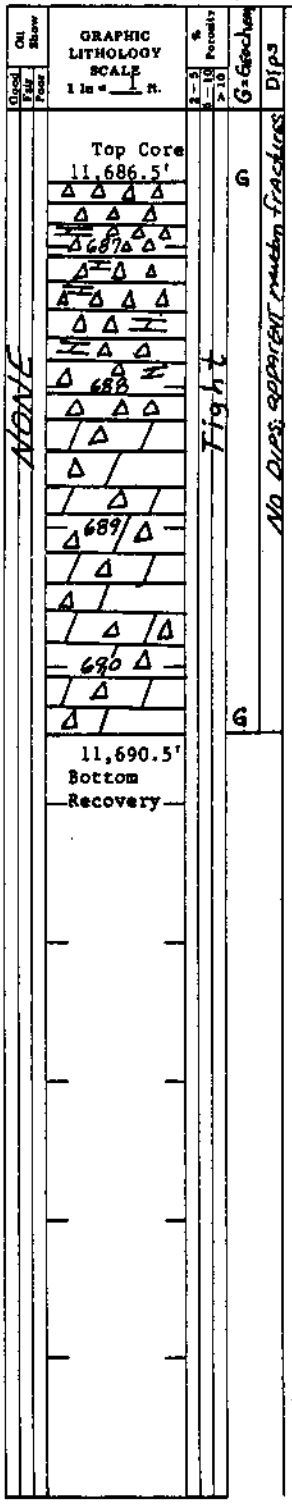
Date: January 21, 1980 T.D. 11,691'

Interval Cored: 11,686.5' - 11,691' Formation: Lisburne

Recovery: 4' (89%) Core Diameter: 4 Inches

GENERALIZED CORE DESCRIPTION: Medium gray dolomite with common small and very large black chert patches, clasts and nodules; common closed random fractures.

#11



DETAILED CORE DESCRIPTION
Prepared By D. B. Young

11,686.5'-11,688.5' Chert, black and light gray, mottled in large and small patches; with minor dolomite, medium gray, finely crystalline, argillaceous, with random healed fractures and local small patches of white calcite, tight; No shows; no dips are apparent.

11,688.5 - 11,690.5' Dolomite, gray-brown, fine crystalline, hard, with common patches and possibly clasts of black and light-gray mottled chert; No shows, no porosity.

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CONVENTIONAL CORE DESCRIPTION FORM

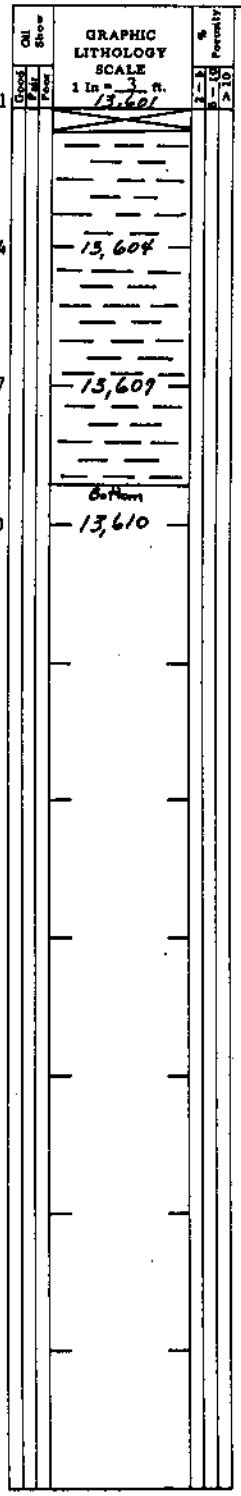
Well: Lisburne Test Well No. 1 Core No: 12

Date: February 26, 1980 T.D. 13,609'

Interval Cored: 13,600.7' - 13,609.0' Formation: Endicott Gp (?)

Recovery: 7.7' (93%) Core Diameter: 4 Inches

#12 GENERALIZED CORE DESCRIPTION: Shale, very dark brown black, very hard, well compacted.



DETAILED CORE DESCRIPTION
Prepared By R. A. Wermeyer

Shale, very dark brown black, very hard, well compacted, slightly silliceous, sub-conchoidal fracture, pods and seams of pyrite to approximately 1/4", rare pods gilsonite, questionable disseminated micro-mica, dip on pyrite seams and lenses 0°, near vertical fracture, closed at 13,601.3' through 13,604.0' with dip of 80°. At 13,603.0' (Top box 2), parallel fractures approx. 1" (one inch) apart appear to enclose a healed crumbled (gouge) zone (best seen on wet surface.)

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OK Menlo Park

CONVENTIONAL CORE DESCRIPTION FORM

Well: LISBURNE No. 1 Core No: 13

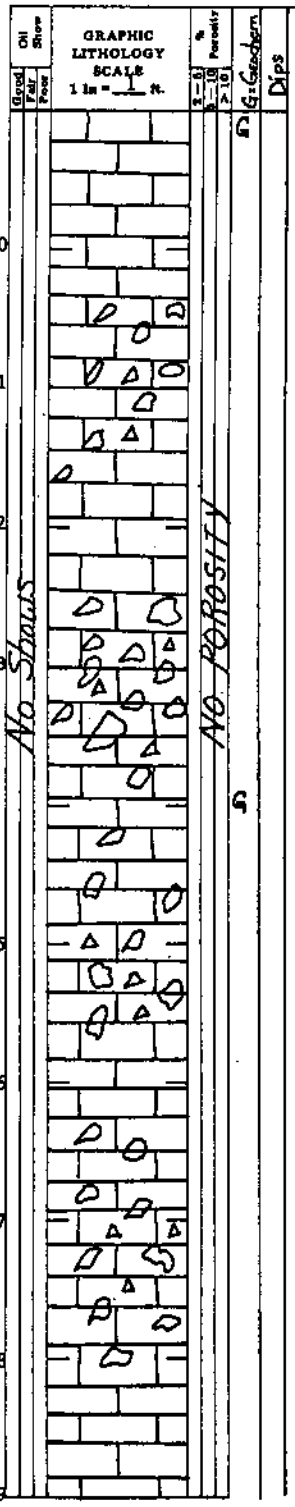
Date: 3/22/80 T.D. 13,870'

Interval Cored: 13,859'-13,870' 5" Formation: Lisburne

Recovery: 11' 5" 100% Core Diameter: 2 5/8" Inches

#13

GENERALIZED CORE DESCRIPTION: Limestone, tan-brown crinoidal packstone and grainstone, hard, with contorted siliceous dark Limestone and chert patches, and thin contorted Shale beds dipping at 30 degrees, occasional stylolites, common closed and calcite-filled fractures.



DETAILED CORE DESCRIPTION
Prepared By D.B. Young

13,859-13,860.3' Limestone, gray-brown, bioclastic, crinoid packstone, very hard, slightly argillaceous, tight.

13,860.3'-13,867.7' Limestone, tan-brown, bioclastic packstone intermixed with contorted dark-gray Limestone, in part siliceous and chert patches and nodules; common dark stained vertical and 40° dipping closed fractures; also 60°- 80° calcite-filled fractures; few stylolites near horizontal to 40°; tight, no shows, sulfur odor on fresh breaks.

13,867.7'-13,869' Limestone, brown bioclastic crinoidal grainstone, hard, tight; no shows; common black stained closed fractures dip at 40° to 60°; calcite-filled fractures dip at 80°.

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CONVENTIONAL CORE DESCRIPTION FORM

Well: Lisburne No. 1 Core No: 13

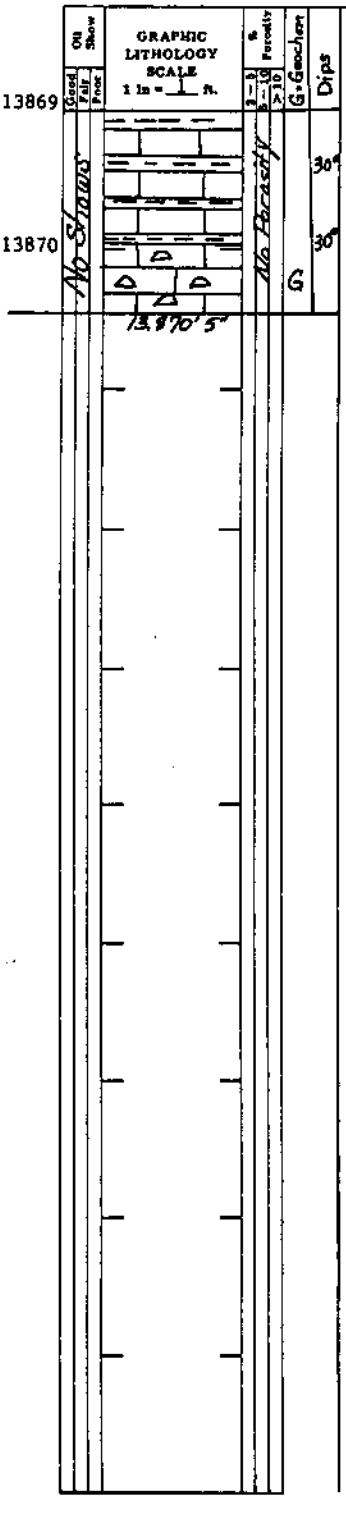
Date: 3-22-80 T.D. 13,870'

Interval Cored: 13,859'-13,870' 5" Formation: Lisburne

Recovery: 11' 5" 100% Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION:

= bioclastic



DETAILED CORE DESCRIPTION
Prepared By D. B. Young

13,869-13,869.8' Limestone, light brown, bioclastic crinoidal grainstone; interbedded with Shale, dark gray; with poor to fair dips of 30°; stylolites also dip at 30°.

13,689.8-13,670.4' Limestone, light brown, coarsely grained bioclastic crinoid grainstone, hard; with near-vertical calcite-filled fractures; tight, no shows.

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U.S. GEOLOGICAL SURVEY/ONPRA

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CONVENTIONAL CORE DESCRIPTION FORM

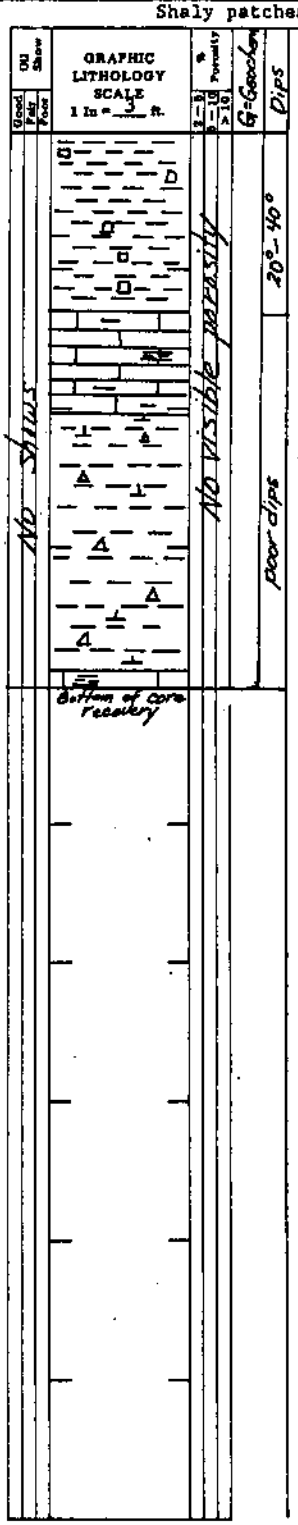
Well: Lisburne No. 1 Core No: 14

Date: 4/17/80 T.D. 15,342'

Interval Cored: 15,328'-15,342' Formation: Lisburne-Kayak transition

Recovery: Cut 14', Recovered 12' (86%) Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION: Dark-gray medium-hard subfissile highly slickensided pyritic shale; interbedded with buff-gray mottled contorted Limestone with Shaly patches and dark-gray hard siliceous shale.



DETAILED CORE DESCRIPTION

Prepared By D.B. Young

15,328'-15,332.3' Shale, dark gray, medium hard, subfissile, highly slickensided, non-calcareous; with large 4 cm pyrite patches, nodules and lenses and with fair bedding dips of 20° - 40°; trace of bleeding gas, no odor, no shows.

15,332.3'-15,334.5' Limestone, buff-gray mottled, contorted, large grains possible bioclast with intergranular Shaly patches and pyrite patches, hard, tight; with some near-vertical closed micro fractures.

15,334.5'-15,339.7' Shale, dark gray, hard, siliceous; with occasional patches of medium-hard subfissile shale as at 15,328'.

15,339.7'-15,340' Limestone as at 15,332.3' with few calcite-filled fractures dipping 50°.

HUSKY OIL NPR OPERATIONS, INC. OK
U.S. GEOLOGICAL SURVEY/ONPRA

CONVENTIONAL CORE DESCRIPTION FORM

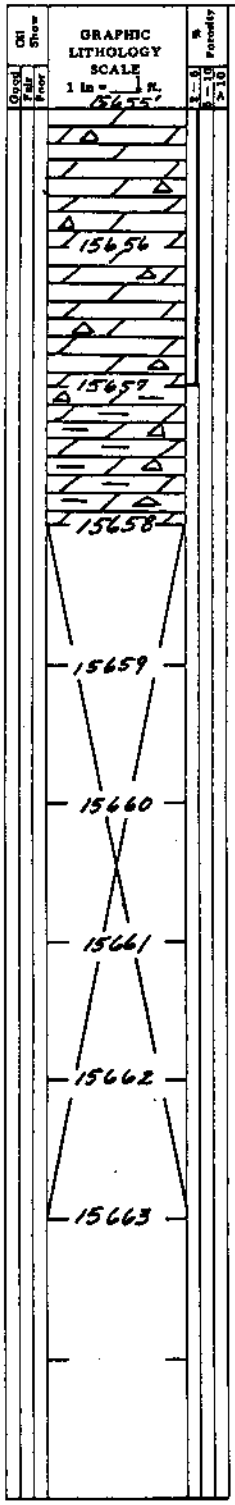
Well: LISBURNE No. 1 Core No: 16

Date: April 25, 1980 T.D. 15,663'

Interval Cored: 15,655'-15,663' Formation: Lisburne

Recovery: 3' Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION: Dolo., very limey in pt., med. gry. brn.-buff, f.x.-c.x., stylo., isol. pods of dolo., v. limey, gen. f.x.-med.x., near vertical frac., w/ calc.-filling, scatt. pale brn.gy. cht nod., sm. indist. foss., sm. blk. gilsonite (?) in c.x. part. No fluor. or cut



DETAILED CORE DESCRIPTION
Prepared By Fenex

15,655'-15,658' (3.0') Dolomite, very limey in part, medium gray brown to buff, grades from finely to coarse crystalline; stylolitic with black carbonaceous material; isolated large pods of Dolomite, very limey, generally fine to medium crystalline; near-vertical fractures with calcite filling; scattered nodules of pale gray brown chert; some near-horizontal laminae; some relict indistinct fossils; scattered black gilsonite in coarsely crystalline fraction; generally well indurated; nil to very poor intercrystalline porosity; no fluorescence or cut. Becomes darker gray brown, argillaceous towards base; highly fractured with nodules of dark-gray chert at base.

15,658'-15,663 (5.0') No Recovery.

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CONVENTIONAL CORE DESCRIPTION FORM

Well: LISBURNE No. 1 Core No: 17

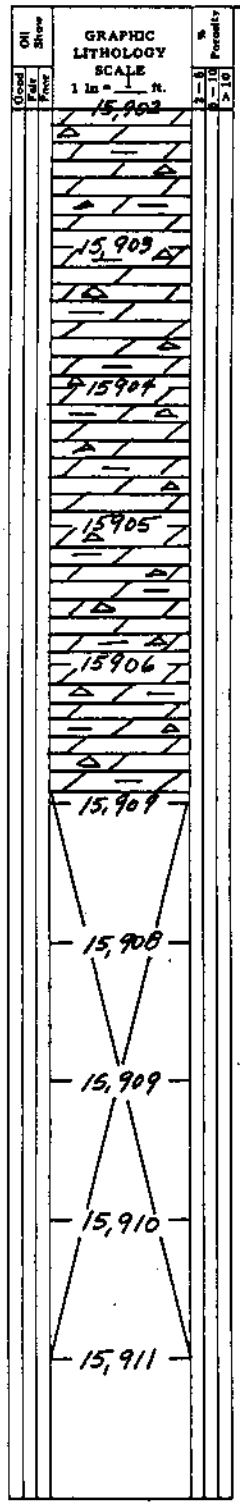
Date: April 30, 1980 T.D. 15,911'

Interval Cored: 15,902'-15,911' Formation: Lisburne

Recovery: 4.8' Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION:

#17



DETAILED CORE DESCRIPTION
Prepared By Fenex

15,902'-906.8' (4.8') Dolomite, buff to tan, recrystallized medium to coarsely crystalline, stylolitic with black carbonaceous material, some veining with calcite fill and calcite-filled fractures towards base; common large dark-gray chert nodules, well indurated, dense; nil porosity. Convoluted structure resulting from alternating pods of Dolomite, mottled dark gray brown, argillaceous, silliceous, finely crystalline, well indurated, dense, abundant scattered calcite blebs (recrystallized fossils ?); very fractured @ base with dip of 50°-60°.

15,906.8'-911' (4.2') No Recovery

12/77

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CONVENTIONAL CORE DESCRIPTION FORM

Well: LISBURNE No. 1 Core No: 18

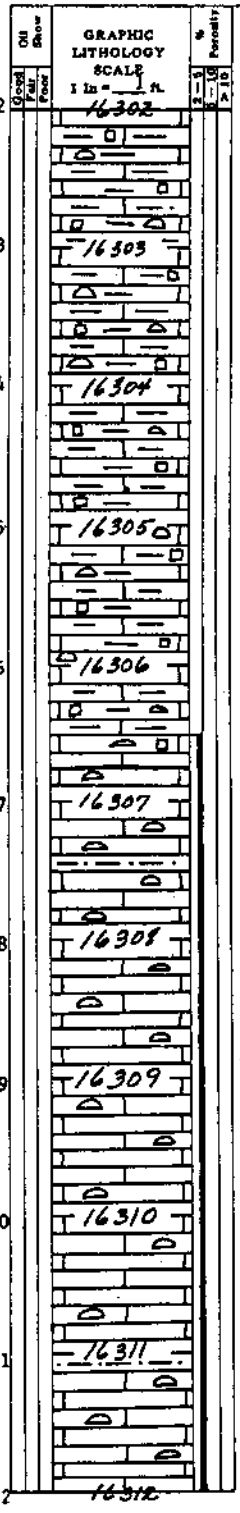
Date: May 6, 1980 T.D. 16,328'

Interval Cored: 16,302'-16,328' Formation: Lisburne

Recovery: 22.5' Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION: Ls., calcilutite to calcarenite, argill., abnt. foss. frag.

4 / 80



DETAILED CORE DESCRIPTION

Prepared By Fenex

16,302'-306.5' (4.5') Limestone, calcilutitic, very dark gray brown, argillaceous, very fine to finely crystalline, predominately lime mud, abundant very fine to micro pyrite inclusions, scattered large fossil fragments, (Crinoids, sponge spicules, brachs.), very well indurated, dense, nil porosity. No fractures.

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MAY 15 1980
ONPRA
MENLO PARK

16,306.5'-318' (11.5') Limestone, calcarenitic, calcilutitic, medium gray brown, mottled, less argillaceous, medium to coarsely crystalline, predominately re-crystallized lime mud matrix with abundant scattered fossil fragments (Crinoids, etc.), scattered finely disseminated pyrite, abundant scattered near horizontal laminations, w/ occasional streaks (1"-3") of Siltstone, dark gray to black, very argillaceous, very calcareous, rare large fossil fragments, very well indurated, dense, with some black chert nodules. Nil to very poor intercrystalline porosity.

HUSKY OIL NPR OPERATIONS, INC.
U.S. GEOLOGICAL SURVEY/ONPRA

CONVENTIONAL CORE DESCRIPTION FORM

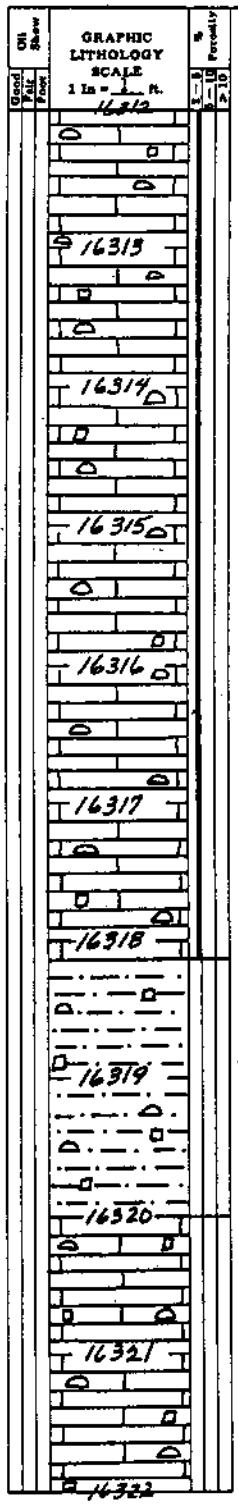
Well: LISBURNE No. 1 Core No: 18

Date: May 6, 1980. T.D. 16,328'

Interval Cored: 16,302'-328' Formation: Lisburne

Recovery: 22.5' Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION:



DETAILED CORE DESCRIPTION

Prepared By Fenex

16,306.5' - 318' (11.5') Cont.

16,318'-320' (2.0') Siltstone, black, very argillaceous, very calcareous, rare large fossil fragments (Crinoids,etc.), horizontal slickensides, micro-pyritic.

16,320'-324.5' (4.5') Limestone, calci|utitic, calcarenitic, medium to dark gray brown, mottled, essentially a/a, but becoming more argillaceous, medium to finely crystalline, pyritic.

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CONVENTIONAL CORE DESCRIPTION FORM

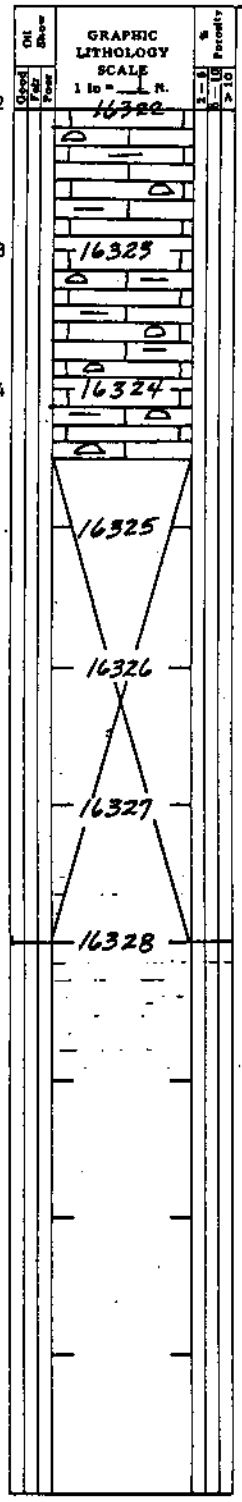
Well: LISBURNE No. 1 Core No: 18

Date: May 6, 1980 T.D. 16,328'

Interval Cored: 16,302'-328' Formation: Lisburne

Recovery: 22.5' Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION:



DETAILED CORE DESCRIPTION
Prepared By Fenex

16,320'-324.5' (4.5') Cont.

16324.5'-328' No Recovery

OK

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CONVENTIONAL CORE DESCRIPTION FORM

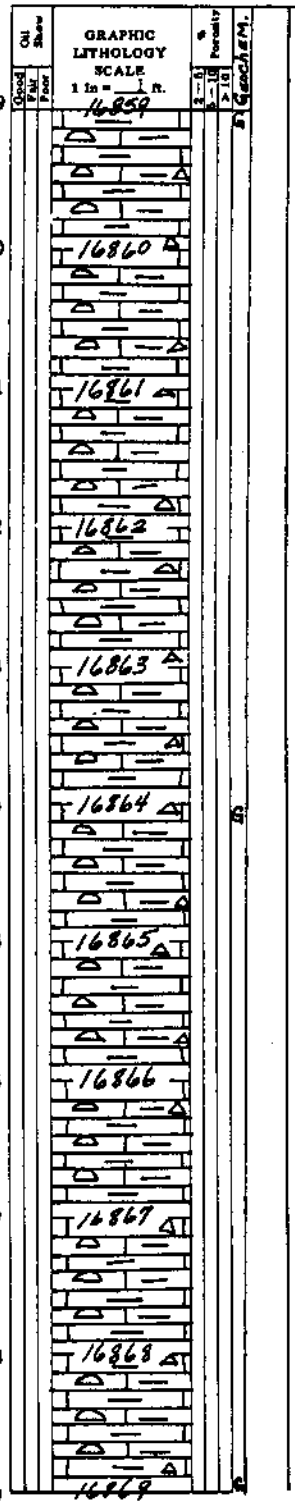
Well: Lisburne No. 1 Core No: 19

Date: May 15, 1980 T.D. 16,875.5'

Interval Cored: 16,859'-875.5' Formation: Lisburne

Recovery: 12' Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION: Limestone, calcarenitic, calcilutitic, w/ abundant black shale laminations and intercalations and black chert nodules.



DETAILED CORE DESCRIPTION
Prepared By Fenex

16,859'-869' (10.0') Limestone, calcarenitic, calcilutitic, mottled gray brown to dark gray brown, predominantly lime mud matrix, recrystallized gray brown, finely to medium crystalline, becoming very argillaceous; grading into shale, black, abundant large fossil fragments (Brachiopods, Crinoids, etc.); rare near-vertical closed calcite-filled microfractures; banded and pod appearing sedimentary structures (ripple undulation); abundant shale laminations with intercalated Shale, black, smooth texture, siliceous, platy, micro-pyritic, very well indurated, brittle with abundant black Chert nodules.

HUSKY OIL NPR OPERATIONS, INC.
U.S. GEOLOGICAL SURVEY/ONPRA

CONVENTIONAL CORE DESCRIPTION FORM

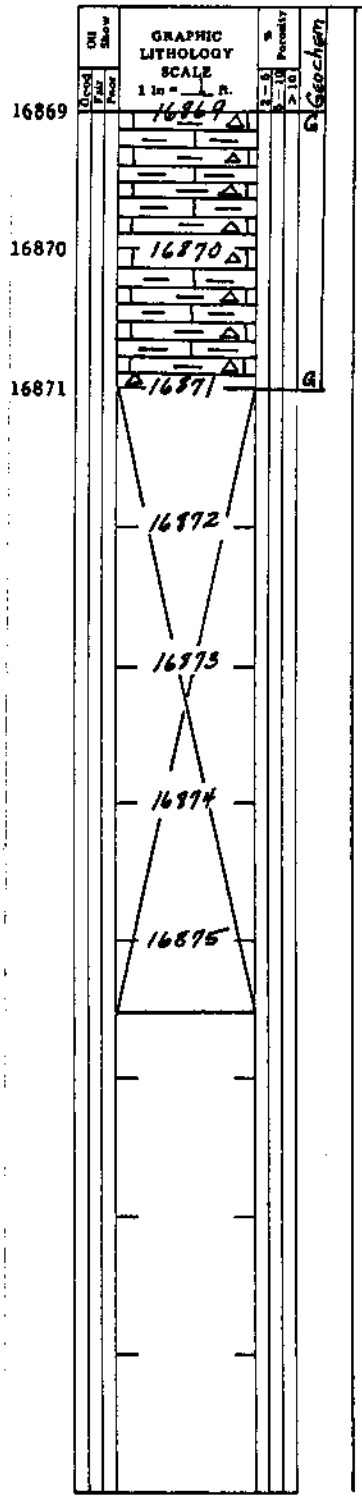
Well: Lisburne No. 1 Core No: 19

Date: May 15, 1980 T.D. 16,875.5'

Interval Cored: 16,859'-875.5' Formation: Lisburne

Recovery: 12' Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION:



DETAILED CORE DESCRIPTION
Prepared By Fenex

16,869-871' (2.0') Limestone, calc;lutitic, dark gray brown, very argillaceous, crypto-crystalline, very well indurated, brittle, dense; with abundant black chert layers and nodules; calcite-filled microfractures.

16,871'-875.5' (4.5') No Recovery

HUSKY OIL NPR OPERATIONS, INC. OK
U.S. GEOLOGICAL SURVEY/ONPRA

CONVENTIONAL CORE DESCRIPTION FORM

Well: Lisburne No. 1 Core No: 20

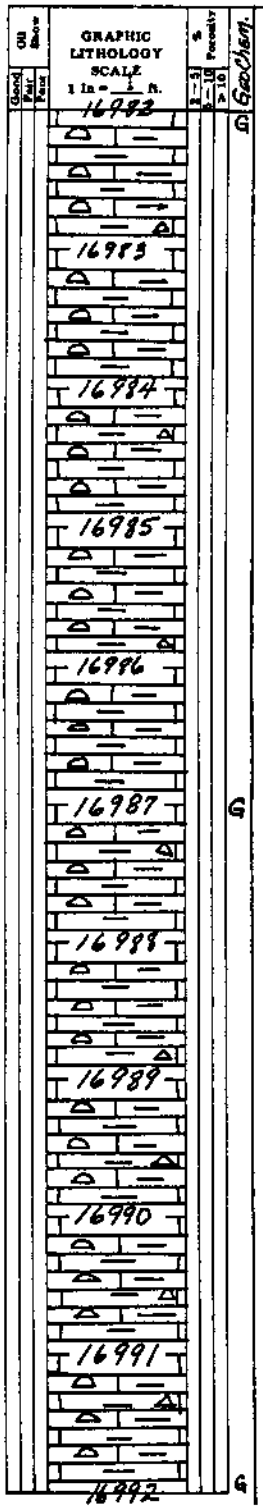
Date: May 19, 1980 T.D. 17,000'

Interval Cored: 16,982'- 17,000' Formation: Lisburne

Recovery: 14.5' Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION: Limestone, calcilutitic, sl. calcarenitic, very argillaceous, rare calc.-fill. fract., rare chert nodules.

#20



DETAILED CORE DESCRIPTION
Prepared By Fenex

16,982'-16,996.5' (14.5') Limestone, calcilutitic, slightly calcarenitic, dark gray brown, finely crystalline, rare to common large fossil fragments (Crinoids, etc.) in lime mud matrix, very argillaceous; rare near-vertical closed fractures; abundant black shale laminations; rare black Chert nodules; well indurated, brittle, dense; nil porosity.

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U.S. GEOLOGICAL SURVEY/ONPRA

CONVENTIONAL CORE DESCRIPTION FORM

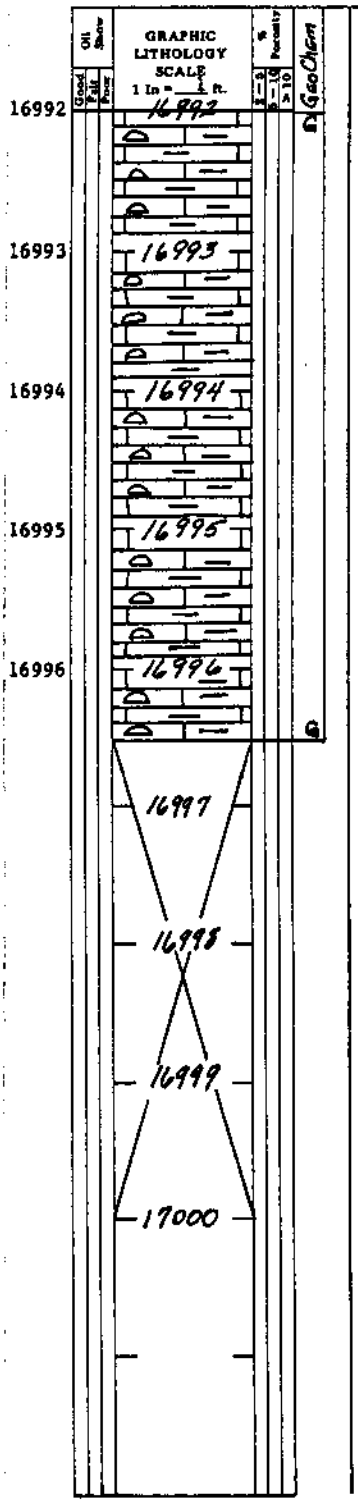
Well: Lisburne No. 1 Core No: 20

Date: May 19, 1980 T.D. 17,000'

Interval Cored: 16,982'-17,000' Formation: Lisburne

Recovery: 14.5' Core Diameter: 2 5/8 Inches

GENERALIZED CORE DESCRIPTION:



DETAILED CORE DESCRIPTION
Prepared By Fenex

16,982'-16,996.5' (14.5') Cont.

16,996.5'-17,000' No Recovery