

34-21-24W

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GEOLOGICAL REPORT

OASIS PETROLEUM, INC. #2 SMITH
C SE NW SECTION 34-21-24 WEST
HODGEMAN COUNTY, KANSAS

ELEVATION: 2437 K. B.

COMMENCED: JULY 13, 1972
COMPLETED: JULY 24, 1972

CASING: 8-5/8' SURFACE CASING @ 565' w/300 BX CEMENT.
OIL STRING - NONE. (PLUGGED & ABANDONED).

FORMATION TOPS:

	OASIS #1 BINDLEY C SE NE 33-21-24W	OASIS #1 SMITH C SW NW 34-21-24W	OASIS #2 SMITH C SE NW 34-21-24W
ANHYDRITE	1658(+ 745)	1680(+ 744)	1698(+ 739)
HEEBNER SHALE	3896(-1497)	3935(-1511)	3959(-1522)
LANSING	3945(-1546)	3986(-1522)	4009(-1572)
BASE KANSAS CITY	4312(-1913)	4361(-1937)	4381(-1944)
FORT SCOTT	4474(-2075)	4514(-2090)	4550(-2113)
CONGLOMERATE	4545(-2146)	4584(-2160)	4629(-2192)
MISSISSIPPIAN	4580(-2181)	4616(-2192)	4677(-2240)
OSAGE	4645(-2246)	4659(-2235)	4715(-2278)
TOTAL DEPTH	4684(-2285)	4698(-2274)	4750(-2313)

ZONES OF POROSITY & STAINING:

CONGLOMERATE SECTION

4642-54

SHARP & TRIPOLITIC CHERTS WITH GOOD VUGGY POROSITY.
GOOD ODOR, FLUORESENCE, & GOOD SHOW FREE OIL. ABUN-
DANT GILSONITIC STAIN. GOOD STAIN IN DRY SAMPLE.

DST #1 4623-52: OPEN 30", SI 30", OPEN 30", SI 30". WEAK BLOW/8" & DIED. REC-
OVERED 20' MUD W/SHOW FREE OIL IN TOOL. IFP=23#-23#. FFP= 26#-
31#. ICIP=31#/30". FCIP=35#/30". IHP=2297#. FHP=2283#. TEMPERATURE 131.0 F.

ZONES OF POROSITY & STAINING, CONT'D.

MISSISSIPPIAN SECTION

4677-82 GREENISH GRAY VERY FINE CRYSTALLINE SLIGHTLY SHALEY DOLOMITE. NO SHOW.

4682-92 GRAY COARSE CRYSTALLINE VUGULAR DOLOMITE. GOOD ODOR, GOOD SHOW FREE OIL. FAIR FLUORESECE. SOME OIL IS BLACK, GILSONITIC. GOOD STAIN, AND POROSITY APPEARS GOOD IN DRY SAMPLE.

DST #2 4677-92: OPEN 30", SI 30", OPEN 30", SI 60". WEAK BLOW/2", THEN SLIGHT PACKER LEAK. RECOVERED 90' MUD. IFP=44#-56#. FFP=61#-61#. ICP=985#/30" (FALSE). FCIP=727#/60". IHP=? FHP=2361#. TEMPERATURE 131° F.

CORE #1 4692-4712. FULL RECOVERY.

4692-94 DENSE DOLOMITE, FRACTURED & BROKEN, WITH WAXY GREEN SHALE PARTINGS.

4694-97 DENSE DOLOMITE AS ABOVE.

4697-99 DOLOMITE WITH ABUNDANT WAXY GREEN SHALE PARTINGS.

4699-4701 DENSE DOLOMITE, WITH ABUNDANT 30 DEGREE FRACTURES.

4701-03 DITTO.

4703-08 PROBABLY FAIR POROSITY. LOOKS LIKE VUGGY DOLOMITE, SOME CHERT NODULES.

4708-10 SAME, BUT BROKEN UP, AND APPEARS VERY CHERTY.

4710-12 VUGGY, FRACTURED DOLOMITE. NO SHOW.

NOTE: CORE DESCRIPTION FROM NAKED EYE ONLY. DID NOT BREAK UP CORE TO EXAMINE MICROSCOPICALLY.

4720-52 BONE WHITE AND LIGHT BLUE VERY SHARP CHERTS AND BUFF AND TAN VERY FINELY SUCROSE DOLOMITE. NO SHOW.

RECOMMENDATION:

SINCE THE #2 SMITH WAS CORED AND TESTED THOROUGHLY, AND IN VIEW OF THE LOW STRUCTURAL POSITION, IT WAS RECOMMENDED THAT IT BE DECLARED DRY AND ABANDONED AT A TOTAL DEPTH OF 4752 FEET.

RESPECTFULLY SUBMITTED,
Richard K. Grant
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