

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
L-2986

7. Unit Agreement Name
None
8. Farm or Lease Name
St of New Mexico-36
9. Well No.
#43
10. Field and Pool, or Wildcat
Lybrook Gallup Ext.

12. County
San Juan

18. Elevations (DF, RKB, RT, GR, etc.)
6937'GL; 6951'KB

19. Elev. Casinghead

23. Intervals Drilled By
Rotary Tools
Yes
Cable Tools
No

24. Producing Interval(s), of this completion - Top, Bottom, Name
Lower Gallup: 5449-5566'
Upper Gallup: 5325-5361'
25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run
CDL/CN/GR; DIPL/GR
Logs are being forwarded under separate cover.
27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	23#	304'KB	12-1/4"	275 sxs	---
5-1/2"	14#	5738'KB	7-7/8"	1st stage: 275 sxs 2nd stage: 850 sxs	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
		NONE		

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	5572.74'	---

31. Perforation Record (Interval, size and number) 1spf 13 holes; 5450, 52, 53, 54, 56; 5523, 25, 27, 29, 31; 5561, 63, 65. 2jspf 5449-58, 5522-33, 5560-66. 1spf 5326, 27, 29, 38, 39, 41, 43, 56, 57, 58, 60. 2jspf 5325-331; 5337-334; 5355-361.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4486-5689'	1085 sxs Class B neet cmt.
5449-5566'	81M# 10/20 & 20/40 sand.
5325-5361'	24M gals gel + 63M# 10/20 & 20/40 sand.
5325-5566'	2000 gals 15% HCl.

33. PRODUCTION

Date First Production 9/22/81
Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing
Well Status (Prod. or Shut-in) Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
9/22/81	24	20/64"		105	120	2	1.42

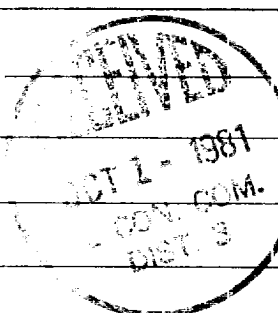
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
200	550		105	120	2	---

34. Disposition of Gas (Sold, used for fuel, vented, etc.)
Will be sold when connected to gas pipeline.
Test Witnessed By
Mr. Dave Howell

35. List of Attachments
Wellsite Geologic Report (See above under Electric and Other Logs Run)

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED _____ TITLE Manager of Operations DATE 9/29/81



DISTRIBUTION

SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

1a. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐
b. TYPE OF COMPLETION
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

2. Name of Operator
Kenai Oil and Gas Inc.

3. Address of Operator
717 17th Street, Ste. 2000, Denver, CO 80202

4. Location of Well
UNIT LETTER I LOCATED 1780 FEET FROM THE South LINE AND 350 FEET FROM

THE East LINE OF SEC. 36 TWP. 24N RGE. 8W NMPM

15. Date Spudded 4/28/81 16. Date T.D. Reached 5/8/81 17. Date Compl. (Ready to Prod.) 8/11/81

20. Total Depth 5738' KB 21. Plug Back T.D. 5626' KB 22. If Multiple Compl., How Many None

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SIGNED _____ TITLE Manager of Operations DATE 9/29/81

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in triplicate except on state land, where six copies are required. See Rule 1165.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs <u>1932</u>	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House <u>3438</u>	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout <u>4120</u>	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos <u>4578</u>	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup <u>5317</u>	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Rough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from to
No. 2, from to
No. 3, from to
No. 4, from to
No. 5, from to
No. 6, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.

No. 2, from.....to.....feet.

No. 3, from.....to.....feet.

No. 4, from.....to.....feet.

FORMATION RECORD (Attach additional sheets if necessary)

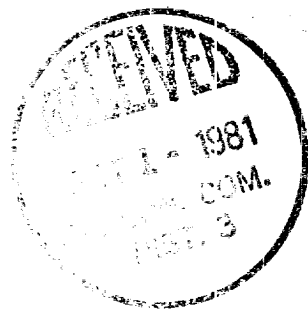
From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation

dick harnly
consulting petroleum geologist
1932 eastlawn ave, durango colorado, 81301, 303-247-1518

WELLSITE GEOLOGIC REPORT

KENAI OIL & GAS INC
State of New Mexico, 36-43
ne sw 36-T24N-R8W
San Juan County, New Mexico

Prepared by: Dick Harnly



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OPERATOR: Kenai Oil & Gas Inc.

WELL: State of New Mexico 36-43

PROSPECT: Escrito/Lybrook Gallup Extension

LOCATION: ne se 36-T24N-R8W
San Juan County, new mexico

LOGGED: 2750±5738'
5-1-81/5-8-81

WELLSITE GEOLOGY: Dick Harnly

MUD LOGGING: None

WELLSITE ENGINEERING: Elledge Consulting & Production Co.
L.Bixler

Drilling Contractor: Kenai Drilling Co.
Red Shorter

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SUMMARY OF MUD PROPERTIES (MESA MUD CO.)

<u>DEPTH</u>	<u>WEIGHT</u>	<u>VISCOSITY</u>	<u>WATER LOSS</u>	<u>CAKE</u>	<u>ph</u>	<u>CHLORIDES</u>	<u>% SOLIDS</u>
400	8.5	30	7.8	1	7.5	500	1.8
2200	9.0	42	4.8	2	8.0	500	4.8
3610	9.1	42	5.6	2	8.0	500	5.2
4040	9.1	38	4.0	2	8.0	500	5.8
4638	9.2	42	3.8	2	8.0	500	5.6
5080	9.1	42	4.0	2	8.0	500	5.8



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FORMATION TOPS (From "E" Logs)

Elevations: 6937 GL, 6951 KB, 6950 DF

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Pictured Cliffs	1932	+5019
Cliff House	3438	+3513
Point Lookout	4250	+2701
Mancos	4518	+2433
Gallup	5317	+1634
Total Depth (Drilled)	5738	+1213
Total Depth (Dresser Atlas)	5730	+1221



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GEOLOGIC SERVICES

Geologic services were performed by Dick Harnly with samples being caught by crew members of the drilling contractor (Kenai Drilling). While the sample quality was generally good there were several instances of samples not being caught....the most flagrant instance was between 3610 and 3770 feet. Several other intervals were missed after informing the crews of the importance of catching samples...it may be that since this hole was drilled on a turnkey contract that drilling contractor did not exercise the control that would have been utilized on day work.

OIL/GAS SHOWS

The first significant shows of oil evidence were encountered at 4220 feet in the Point Lookout formation. In this interval a fine grained sandstone with a few medium size grains was encountered exhibiting a dull spotty yellow fluorescence in about 15% of the sample. A slow bleeding blue-white cut fluorescence was noted in this slightly calcareous sandstone. No visible porosity or permeability was found in this sandstone.

Near the base of the Point Lookout formation a second zone of interest was encountered in the samples 4480-90 feet, in a very fine grained calcareous sandstone exhibiting good bright yellow fluorescence and a good to fair blue-white cut fluorescence. This sandstone graded with depth to an argillaceous siltstone with a fair amount of dull yellow fluorescence and a poor milky cut fluorescence. No porosity or permeability was visible. Shows in this zone extended to 4525 feet.

At 4755 feet (Mancos) a 10 foot sample contained an argillaceous, calcareous siltstone with a very dull yellow fluorescence and a fair blue-white cut fluorescence....while this show is of minor importance in this hole it

50-42
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should warrant close scrutiny in future drilling. A similar zone, deeper in the Mancos was encountered between 4970 and 5060 feet. This zone may not be truly represented due the abundance of cavings.

In the Gallup formation a siltstone was found, at 5315-20 feet to exhibit a very dull gold fluorescence in about 40% of the sample, yielding a very poor milky cut fluorescence. Between 5345 and 5370 feet a siltstone grading to a very fine grained sandstone with a light tan oil stain presented a strong yellow fluorescence with a good streaming blue-white cut fluorescence in 30-40% of the sample. This zone was found to be calcareous to very calcareous. A sandstone, fine grained and calcareous, was noted 5465-75 but may be of a slightly greater thickness because of a missing sample (see log). A final zone of interest was encountered in the samples 5530-45 feet. A very fine grained, silty, calcareous sandstone possessing a light oil stain with a bright yellow fluorescence and a fair to good blue-white cut amounted to about 15-20% of the sample. While no visible porosity or permeability was noted the sandstone, being calcareous should respond to an acid treatment at completion time. No further shows were encountered below this zone.

