	<del></del>										C-103	_	
DISTRIBUTION									/	/	sed 1-1-6		
SANTA FE			NEW	EXICO (	OIL CON	ISERVATIO	N CC	MMISSION				of Lease	-
FILE		WEL	L COMPLE	TION O	R REC	OMPLETIC	N R	EPORT A	ND LOG	State		Fee	
U.S.G.S.												s Lease No.	
LAND OFFICE										L-29	06		
OPERATOR													
la. TYPE OF WELL				· · · · · · · · · · · · · · · · · · ·				FILE		7. Unit A	greement	Name	7777
b. TYPE OF COMPLE	TION	WELL X	GAS WELL		DRY	ОТНЕ	ALI	<b>111</b>	07	None	or Lease	1.7	
NEW IT WO	RK []	Γ-	7 PLUG	DI	PP. [		V.	nr	. \	l		Name SW Mexico	26
2. Name of Operator	ER	DEEPEN	BACK	RE	SVR.	OTHER		<del>-1-1</del>	381 1	9. Well N			. 20
Kenai Oil and	d Gas In	c.			.*	- 1	OC	CON. C	.MO.	.#21			
3. Address of Operator							OIL	DIST	3			ol, or Wildcat	·
717 17th Stre	et, Ste	. 2000	, Denver	. CO 80	0202-3	3373		DION		Lybro	ook Ga	allup Ext	
4. Location of Well						2.2.1.2	-			11111	7777	7777777	777
UNIT LETTER	LOCATE	59	0		Nort	ch	2	2030					
	_					LINE AND	TT	TIIKI	FEET FROM	12. Coun	-		
THE West LINE OF		TWP.		. 8W	NMPM		III	IXIIII		San .		M/M	
15. Date Spudded			ned 17. Date							R, etc.) 1	9. Elev.	Cashinghead	
5/12/81		5/81		/27/81		68	ا 90	GL; 690	04 ' KB	•			·
20. Total Depth	2	l. Plug Bo		22.	If Multip Many	le Compl., Ho	w	23. Intervo	ls , Rotar	y Tools	, Ca	ble Tools	
5735 KB			679 <b>'</b>		wany	None	1	Driffed		Yes		No	
24. Producing Interval(	s), of this c	ompletion	- Top, Bottom	, Name								s Directional S	urvey
Lower Gallup:			* **								Ma	ic.e	
Upper Gallup:												$N_{O}$	
26. Type Electric and CCBL/GR; CDL/C			Logs	are be	ing fo	orwarded	uno	der sep	arate c	over.	. Was We Ye		
28.			·			ort all string							
CASING SIZE	WEIGH	T LB./FT				_E SIZE	3 301	<del></del>	ITING REC	OPD		AMOUNT PULI	
8-5/8"	23			)'KB	<del> </del>	1/4"				ORD	<u>-</u>	AMOUNT FULL	-=-
5-1/2"	14		5735		<del></del>	-1/4" -7/8"		275 sxs					
<u> </u>		II	213	7.170	1=	-170	2nd	stage:					
							<u> 211</u> U		1090 8	SXS			
29.		LINE	R RECORD	······································	L		L	30.		UBING RI	ECORD.		
SIZE	TOP		BOTTOM	SACKS C	EMENT	CCDEEN			1		ECORD		
3122	NONE		BOTTOM	3ACK3 C	EMENI	SCREEN		SIZE		PTH SET	-	PACKER SE	T
	MONE							2-3/81	555	94 <b>'</b> KB			
31. Perforation Record	(Internal ai					Tag	1.615		1				
	, ,		,			32.			RACTURE,				
SEE ATTACHED	COMPLET	TON HT	STURY			DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED							
1	•					SEI	S AT	TACHED	COMPLET	TON H	ISTORY	<del></del>	
						ļ	<del></del>						
					•								
33.	<del></del>	<del></del>		<del></del>	PROD	UCTION	<b>V</b>						
Date First Production	T	Production	n Method (Flou	ing. gas i			ıd typ	e numni		Well Sto	rtus (Pro	a'. or Shut-in)	
9/23/81				lowing	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					1 _	roduc	•	
Date of Test	Hours Tes	sted	Choke Size	Prod'n. Test Pe		Oil - Bbl.		Gas - MCF	Wate	r – Bbl.	Gas	Oil Ratio	
9/23/81	24	_	20/64"	1031	>	175		210		0		200	
Flow Tubing Press. 200	Casing Pi	essure	Calculated 24 Hour Rate	011 – B		Gas -		Wo	ter — Bbl.		Oil Gravi	ty - API (Corr.	.)
34. Disposition of Gas		for fuel ::	antad stal	1 1/2			210		0	. 11/14			
•									Test	Witnesse	=	73	
Will be sold  35. List of Attachments	wnen com	mecte	1 to gas	<u>pipeli</u>	ine.					Mr. D			
						_	_					tric and	
Completion Hi	story, N	<u>wellsi</u>	<u>te Geolog</u>	ic Rep	ort,	<u>Core Ana</u>	.lys	is. c	other L	ogs ru	n)	· · · · · · · · · · · · · · · · · · ·	
36. I hereby certify tha	the informa	ition show	n on both side.	s of this fo	orm is tri	ie and comple	te to	the best of	my knowled	ge and bel	ief.		
SIGNED 🗸	offh	ml_	-		]	Manager	of (	Operati	ons		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 despend 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 36 through 34 shall be reported for each zone. The form is to be filed in quintuplicate 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

Southeastern New Mexico						Northwestern New Mexico						
T. An	hy		Т.	Canyon	т. Т	Γ. <b>Ο</b> ίο Δ	Mamo		T.	Penn. "B"		
			T. Strawn							T. Penn. "C"		
	altT. Ajoka					s <u>1906</u>	Т.	Penn. "D"				
				Miss					7	Leadville		
				Devonian-					T	Madison		
				Silurian				4228	т.	Elbert		
				Montoya				4438	<u>'</u> т.	McCracken		
				Simpson				5317		Ignacio Otzte		
				МсКее								
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T. Bli	inebry		Т.	Gr. Wash	Т	. Morri	son		Т.			
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				Delaware Sand								
				Bone Springs								
T. Wol	lfcamp		Т.		Т	Chinl	е		т			
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Kenai Oil and Gas, Inc. New Mexico State 36-21 NENW Section 36, T24N, R8W San Juan County, New Mexico

Elledge Consulting and Productions

### COMPLETION HISTORY

OCT 1 = 1981OIL CON. COM.

- 7-8-81 Rig up Action #6 Pick up 4 3/4" Hughes bit and bit sub (3.20') and 127 jts. 2 3/8 tubing (4576.00') + 4' on #148 + 7' KB = 4590.20 KB tagged cement above DV tool. Rig up pump & power swivel to drill DV tool at 4601' KB. Drill DV in 2 hrs. TIH to 5619 and tag cement. Rig up power swivel. Circulate hole clean. 76' of cement to drill. SIFN.
- 7-9-81 Drlg. cement 5619' to 5657' and on to 5688' KB. Circulate clean and POOH. Rig up Gearhart and ran CBL-VDL from 5679' to 1000' with 700 psi on casing. Top of good cement 5190'. Satisfactory 5190 and below. RIH with 180 jts. tbg. with SN 2 jts. up and placed EOT at 5624' KB. SIFN.
- 7-10-81 Rig up Nowsco and pressure test casing 3000 psi, 5 min., 0K. Swab FL to 4000'. Rig up Gearhart and perforate lower Gallup 1 shot at the following depths: 5450, 53, 55, 58, 5501, 06, 22, 24, 54, 57, 60, 93, 95, and 97. RIH with Mountain States retrievable BP and Packer (13.92'), 1 jt. tbg. (30.65'), SN (.80') 180 jts. tbg. (5616.26') and set BPat 5640' KB. Move pkr. and left unset at 5630' KB. Gauged gas at 4.4 MCFPD. Swab FL to 5600. Gas rate increased to 6.5 MCFPD on ½" choke. Left open for night.
- 7-11-81 Flowing natural at 11.6 MCF/day Stablized after flowing nine hrs. Highest rate was 19.3 MCF/day after open 2 hrs. Total flow time was  $15\frac{5}{2}$  hrs. Fluid level was 3700. Circulated hole with 2% KCl water. Set BP at 5640 and packer at 5630, tested to 3000 psi and held. Set packer at 5472. Break down perfs between 5501 and 5597 at 2300 psi. Pumped 2 BPM at 2600 psi. Pumped 900 gal. 15% HCl with 2 gal/1000 NE and 2 gal./  $\,$ 1000 claystay and 2 gal. / 1000 Inhib. with 20 ball sealers. Had good ball action but did not ball off completely. ISIP 600 psi 5 min. 600 psi 15 min. 600 psi. Opened to pit and flowed back 15 bbls. Released packer and retrieved BP to set at 5485'. Set packer at 5470' and tested to 3000psi and held 5 min. Reset packer at 5340' and pumped 400 gal. 15% HCl with 8 ballsealers. Broke down at 2700 psi and pumped 3.8 BPM at 2300 psi. Balled off 3 holes and had small leak on 4th at 3000 psi. Surged off balls and finished displacing acid. Total load was 85 bbls. Flowed into pit 10 bbls. Released packer and retrieved BP and set at 5630' KB. Set packer at 5435' KB 174 jts. (5425.29) packer (4.0) SN (.80) and rig up to swab. Swabbed well to seating nipple in 7 runs. Small amount of gas and trace of oil. SIFN.
- 7-12-81 Sunday Crew Off
- 7-13-81 SITP 300 psi FL 1700' Blew down oil and gas 97% oil approx. 3 bbls. Made swab run and had 70% oil on top of 3 bbls. water. Release packer and down to 5620. Circulate gel water. Retrieve BP and POOH with packer and BP. Rig up Go and run baseline temp. Survey from 5630' to 5200'. Rig up Nowsco and frac. with 63,000 gal. 40# crosslinked gel with 2% hydrocarbon and 600 SCF/BBL CO2. Fluid contained 2% KCl, 1 gal./1000 aquaflow, ½ gal./1000 xcide, ½ gal./1000 claysta, NBW-10 breaker. 99,000# 20/40 & 20,000# 10/20 sand. Flushed with 4550 gal. 2% KCl water AIR 32 BPM-FL 5.5 BPM-CO2= 37.5 BPM. Max trt. psi 1700 Min trt. psi 1500 Avg. trt. 1500 psi. TSIP 1100 psi 15 min 1000 psi. Total LW to be recovered 1500 bbsl. Rig up Go & run temp. survey from top of fill at 5640' to 5300'. Run 2nd one hr. later from 5640' to 5300'. Rig down Go and open up well to pit 845 psi on casing 4:30 pm. Lyle's Oil Tools on loc. to watch & record pressure. 3/4 chcke in

Kenai Oil and Gas, Inc. New Mexico State 36-21 NENW Section 36, T24N, R8W San Juan County, New Mexico

Elledge Consulting and Product

OCT 1. - 1981

OIL CON. COM.

#### COMPLETION HISTORY CONTINUED

- 7-14-81 Flowing gas at 8:00 am 20 MCF/day. Rig up Go and reperforate lower 611 up 2 JSPF 5448 to 5460 24 holes, 5503 to 5508 10 holes, 5521 to 5526 10 boles 5552 to 5562 20 holes. Run Baker ret. BP on wireline and set at 5350'. TIH with 1 jt. 2 3/8 (30.65) = SSN (.80) and 170 jts. 2 3/8 tubing. Land at 5339' KB. Swab down well 1700' and came in. Flowing oil and gas for 1 hr. Circulated hole with 2% KCl water. Rigged up National Cementers kill truck and pressure tested casing and BP to 3000 psi. Held for 5 min. with no bleed off. SIFN.
- 7-15-81 SICP O SITP O Swab down to 4000' and TOH with tubing. Rig up GO and perf. 10 holes from 5331 to 5340. TIH with Mt. Sts. Packer (3.40), SSN (.80), & 169 jts. 2 3/8 tbg. (5268.04'). Set packer at 5279' KB. Swab well dry. Lyle's Oil Tools put on Merla Tester with ½" orifice tester. Tubing dry and no flow. Left open on chart to record overnight.
- 7-16-81 Had no measurable flow overnight. Made swab run and had no fluid in tubing. Rig up Nowsco and spot 5 gal. sand on BP after filling with 2% KCl water. Set packer at 5150 and trap 1000 psi on backside. Pump 24 bbls. 15% HCl with 2 gal./1000 NE, clay Stabilizer, and Inhibitor and 20 ball sealers. Broke down at 2200 psi. AIR 2 BPM at 1200 psi. Very little ball action. Total load 50 bbls. ISIP 1100 psi 15 min 1000 psi. Bled back to pit approx. 5 bbls. Rig up to swab. Swabbed 23 BLW in 6 runs and swabbed dry. SIFN. No show of oil or gas.
- 7-17-81 SITP 240 psi bled off acid gas in 4 min. Ran swab, IFL 4000' 30% oil. Release packer and run thru perfs. POOH with packer. Rig up Nowsco and frac. with 17,000 gal. of 40# gel, 2% hydrocarbon and 400 SCF/BBL CO2. Fluid contained 2% KCl, l gal./1000 aqua flow, ½ gal./1000 xcide, ½ gal./1000 claysta. NBW 10 breaker, 22,500# 20/40 sand, 7,500# 10/20 sand. Flushed with 110 bbls. 2% KCl water, AIR 22 BPM fluid 3 BPM CO2. Max. trt. 1600 psi, Min. trt. 1400 psi, Avg. trt. 1500 psi. ISIP 1400 psi, 5 min 1200 psi, 15 min. 1200 psi. Total load 514 bbls. Rig up Go to run temp survey tagged sand at 5170' 161' above perfs. Rig down Go. Leave shut in 2 hrs. and open to pit with 930 psi on casing. 3/4" choke on 2" line. Lyle's Oil Tools representative on loc. with recorder.
- 7-18-81 Well blew down in 5½ hrs. and brought up some sand. TIH with Baker retrieving head and 2 3/8 tbg. Tag sand at 4735'. Rig up Nowsco and blow down with N2. Made sand for 3 hrs. TIH to 5310 and blew down to BP at 5360. Latched onto plug and TOH. Rig up Go and reperforate from 5331 to 40 with 2 spf. Rig down Go and SIFN.
- 7-19-81 Sunday Crew Off
- 7-20-81 SICP 100 psi. Flowed 7 BO and 3 BLW in 2 hrs. and gas at the rate of 500 MCFPD. Kill well with 50 bbls. 2% KCl water. RIH with 1 jt. open ended (30.65'), SN (.80') and 180 jts. tbg. & tag sn fill at 5653' KB. (56' of rathole) Placed EOT at 5594' with 179 jts. in hole. Rig to swab. Made 14 runs and recovered 60 BLW and 10 BO. FF1 3300', FCP 25 psi. SIFN.

Elledge Consulting and Production Co.

Kenai Oil and Gas, Inc. New Mexico State 36-21 NENW Section 36, T24N, R8W San Juan County, New Mexico

#### COMPLETION HISTORY CONTINUED

7-21-81 SICP 50 psi, SITP 140 psi - Tagged sand at 5650' KB, made 3' overnight, nippled down and landed tubing. Final proudction is as follows:

1 JT 2 3/8" tubing - open ended	30.65'
1.78"I.D. seating nipple	·80'
178 JTS 2 3/8" tubing	5551.69'
179 JTS	5583.14'
Landed below KB	10.86'
Tubing landed at	5594.00' KB

Top of SN at 5563' KB. Mipple down BOP and nipple up tree. Made 3 swab runs and recovered 15 BF, 50% oil. Released by David Howell to move to Jeffers Federal #2-23. Moved 6 jts. tbg. to Action yard. Job complete.



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, 36-21 ne nv 36-T24N-R8W San Juan County, New Mexico

Prepared by Dick Harnly



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

OPERATOR:

Kenai Oil & Gas, Inc

WELL:

State of New Mexico #36-21

PROSPECT:

Lybrook Gallup Ext.

LOCATION:

ne nu 36-T24N-R8W

590 FNL, 2030 FWL

San Juan County, New Mexico

LOGGED:

1500-5735

5-13-81/5-27-81

WELLSITE GEOLOGY:

Dick Harnly

WELLSITE ENGINEERING:

Elledge Consulting & Production

L. Bixler

MUD LOGGING:

None

MUD:

American Mud Co.

T.Smith

CORES:

American Coldset Corp.

D. Hackford

LOGGING:

Dresser Atlas

E. Vest

DRILLING CONTRACTOR:

Westwind Drilling, Rig 51

C.Porter, Pusher

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

## SUMMARY OF MUD PROPERTIES (American Mud)

<u>DEPTH</u> 305	WEIGHT	VISCOS ITY	WATER LOSS	CAKE	<u>ph</u>	CHLORIDES	% SOLIDS
305	8.7	32	4.2	fi1m	8.5	400	2.0
1781	8.8	34	5.6	film	8.5	400	3.0
2550	8.8	34	4.4	1	8.5	600	3.0
3183	8.9	40	4.0	2	8.5	400	3.0
3665	8.9	39	4.4	2	8.5	400	3.0
4275	8.9	40	4.0	2	8.5	450	3.0
4771	8.8	36	4.2	2	8.5	400	2.0
5061	9.0	44	4.6	2	9.5	400	3.0
5314	9.0	60	4.6	2	9.0	400	(A.a.)
5360	9.0	60	4.0	2	9.0	600	4.0 7 1991 COM.
5441	9.0	55	4.2	2	9.0	400	4.0

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

# FORMATION TOPS ( From "E" logs) Elevations: 6890 GL, 6904 KB

FORMATION	DEPTH	ELEVATION
Pictured Cliffs	1906	4998
Cliff House	3402	3502
Point Lookout	4228	2676
Mancos	4438	2466
Gallup	5317	1587
Total Depth (Drilled)	5735	1169
Total Depth (Logged)	5731	1173



dick harnly

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

No oil shows were noted in samples above the Point Lookout formation, but in said formation a medium grained sandstone was encountered between 4220 and 30 feet. This subangular, slightly calcareous sandstone exhibited a fair spotty yellow fluorescence with a slow bleeding blue-white cut fluorescence. This sandstone, while exhibiting no visible porosity or permeability was laced with a few thin carbonaceous laminations. No further evidence of oil shows was found in the Point Lookout.

In the Mancos, between 4930-75 feet, a siltstone, grading in part to a very fine grained sandstone, exhibited a poor to fair blue-white fluorescence in about 30-50% of the sample throughout this interval. A poor to fair slow blue-white cut fluorescence was evident.

The Gallup formation was cored in this hole 5321-79 and 5441-5501 feet. No shows were evident in the first core...only a few chips were taken at the wellsite in order to preserve as much of the core as possible for detailed examination at the laboratory of Core Lab in Farmington, but there was no evidence of core bleeding of oil or water. Core two, 5441-5501 feet did show a spotty bleeding of oil between 5443 and 45 feet...good bleeding 5445½ -48½ and fair spotty bleeding of oil 5448½-51 feet...a good sweet oil odor was noted throughout this zone of bleeding core (For detailed wellsite description see attached geologic log). Two minor oil shows were noted in drilling samples 5560-65 and 5595-5600 feet. These zones exhibited a sandstone (about 10% of each sample), light brown, calcareous with a dull gold fluorescence and a fair slow blue white cut fluorescence.

No significant hole problems were encountered in the drilling or logging of this hole...considerable difficulty was experienced by Dresser due to tool and instrument malfunction/failer but with parts and an engineer from Houston, Texas the logs were finally run.