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UNITED STATES       "UNITED STATES         DEPARTMENT OF THE INTERIOR GEOLOSICAL SURVEY       O. C. D.         APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK IL: Theory WORK Renal Oll 6 Cas, Inc.       C. C. D.         APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK With Drive Work Renal Oll 6 Cas, Inc.       C. C. D.         Note: Deepen Delig BACK With Drive Work Renal Oll 6 Cas, Inc.       C. C. D.         C. C. D.         State: Deepen De			AJ144.01 552		SUBMIT IN	PLICATE		approved.	
DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY         C.C.D.         THE THE SUBJECT AND SELLATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Internet of the sub- the of the sub- the sub- subscript of the subscript and subscript of the subscript	(May 1963)	UNIT	ED STATES		(Otherninstru Juryrses	1980			
GEOLOGICAL SUFVEY       O. C. D.         APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUSTBACK IN 13987         NELL ©         DRILL ©       DEEPEN DEEPEN OR PLUSTBACK With or once of the colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"         Note of the colspan="2"         Note of the colspan="2"         Colspan="2"         Note of the colspan="2"         Colspan="2"         Note of the colspan="2"         Note of the colspan="2"         Colspan="2"         Note of the colspan="2"         Colspan="2"         Note of the colspan="2"         Addition construction of the colspan="2"         Addition construction construction of the colspan="2"							5 LEASE DESIG	S-	3368
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PEUGE BACK       C Non Alternation of Non A					O. C.	D.		and and	BEATAL NO.
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b. THE OF WELL       WALL       OTHER       WALK 2 (13)       WAT 2 (13)       K FAN GE LEASE SAME         2. NAME OF OFFENDE       MAY 2 (13)       WAY 2 (13)       K FAN GE LEASE SAME       Cob D Federal         2. NAME OF OFFENDE       MAY 2 (13)       WAY 2 (13)       WAY 2 (13)       Cob D Federal         1001 Petroleum Building Midland, Texas Worderset Building Midland, Texas Worders	DRIL	.L 🖄	DEEPEN		PLUG BA		7. UNIT AGREE	MENT NAME	;
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1001 Petroleum Building Midland, Texas Word:ULUC-ALL BUILCT       10 results to root, or with CC         2,200 FNL & 300 FEL       2,300 FEL       Undesignated         Arproximately 19 road miles sourcasts       330'       10 miles in the sourcasts         Same       330'       240 Artesia, IM       Edg         Distance in the source of th			·						
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Approximately 19 road miles southeast of Artesia, IM       Eddy       New Methods         10. Distance Face read "BOW BOWERD"       330'       16. No. or Access IN LEASE       17. No. or Access ASINGED         10. Distance Face read read and the string of the string	Same						Sec. 22,	T185,	R27E
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1000000000000000000000000000000000000			s southeast			17 NO 0			New Mexico
(Also to barrent diffy unit line, (in may)       10. PREPORT 0       20. ROTART OF CABLE TODUE         (b) NUMBER' WELL DIMILIES, (in may)       10. PREPORT DEPTH       20. ROTART OF CABLE TODUE         (c) NUMBER' WELL DIMILIES, (in may)       2.300'       Rotary         (c) NUMBER' WELL DIMILIES, (c) CONTRACTOR CABLE TODUE       2.300'       Rotary         (c) NUMBER' WELL DIMILIES, (c) CONTRACTOR CABLE TODUE       2.300'       2.400'         (c) NUMBER' WELL DIMILIES, (c) CONTRACTOR CABLE TODUE       2.300'       2.400'         (c) NUMBER' WELL DIMILIES, (c) CONTRACTOR CABLE TODUE       2.300'       2.400'         (c) NUMBER' WELL DIMILIES, (c) CONTRACTOR CABLE TODUE       2.300'       2.400'         (c) NUMER' WELL DIMILIES, (c) CONTRACTOR CABLE TODUE       2.300'       3.50 SET         (c) NUMER' WELL DIMILIES, (c) CONTRACTOR CABLE TODUE       3.457.8 GR       3.457.8 GR         (c) NUMER' WELL DIMILIES, (c) CONTRACTOR CABLE TODUE       3.457.8 GR       3.457.8 GR         (c) NUMER' WELL DIMILIES, (c) CONTRACTOR CABLE TODUE       3.457.8 GR       3.457.8 GR         (c) NUMER' WELL DIMILIES       NUMER' WELL DIMILIES       3.457.8 GR       3.457.8 GR         (c) NUMER' WELL DIMILIES       NUMER' WELL DIMILIES       NUMER' WELL DIMILIES       3.578.7 GR         (c) NUMER' WELL DIMILIES       NUMER' WELL DIMILIES       NUMER' WELL DIMILIES	LOCATION TO NEAREST		- 3301		LO IN LEADE	TO TI	HS WELL		
The NAMERY WELL MERLED. ON AFTURDER OF WILL STATE       2,300'       Rotary         21. TREARDORE (Show whether DP. RT. GR. dc.) 3,457.8 GR       22. AFFRON. DATE WORK WILL STAT July 1, 1980         23.       PROPOSED CASING AND CEMENTING PROGRAM         NUZE OF HOLK       NUZE OF CASING       WEIGHT PROFONT         NUZE OF HOLK       NUZE OF CASING       WEIGHT PROFONT         11"       8 5/8"       20 or 24#       450'         11"       8 5/8"       20 or 24#       450'         11"       8 5/8"       20 or 24#       450'         20 or 24#       450'       400 SxClass "C" Circulate         Casing and Mud Program:       Kove in R.V. Rotary, spud 11" hole, drill to 450', run 8 5/8" casing, cement with 400 Sx Class "C", WOC 18 hours, nipple up, test BOP and casing with 1000 PSI, drill 7 7/8" hole to 2,300", mud up at approx. 1,300" w/36 VIS, 9.5 wt., no WL control, run logs, if looks commercial, run 4 1/2" casing and cement with 300-350 Sx class "C".         BOP Program:       Will use Shaffer Type E double hydraulic BOP 10" Series 900. See Exhibit "E".         MARKE MERCE MERCERE PROFORED PROFERE HIP proposal is to drill or deepen directionally, give pertirent data un subsurface locations and measured and true vertical depths. Give blow preventer program. If any.         MARKE MERCE MERCE DE State Office Use)       Magent for: run Kenai Oil & Cas, Inc.       Date May 22, 1980         MARE // The pace for Pederal or State office Use)       <	(Also to nearest drig.	unit line, if any)						1.8	
21. ELEVANONS (Show whether DP, RT, GR, etc.)       22. APPROX. DATE WORK WILL STAL         3,457.8 GR       July 1, 1980         23.       PROFOSED CASING AND CEMENTING PROGRAM         NUEE OF HOLE       SIZE OF CASING       WEIGHT PROPORT         11"       8 5/8"       20 or 24#       450'         11"       8 5/8"       20 or 24#       450'       400 SxClass "C" Circulate         7 7/8"       4 1/2"       10.5#       2,300'       350 Sx Class "C"         Casing and Nud Program: Nove in R.V. Rotary, spud 11" hole, drill to 450', run 8 5/8" casing, cement with 400 Sx Class "C", WOC 18 hours, niple up, test BOP and casing with 1000 PSI, drill 7 7/8" hole to 2,300", mud up at approx. 1,300" w/36 VIS, 9.5 wt., no WL control, run logs, if looks commercial, run 4 1/2" casing and cement with 300-350 Sx class "C".         BOP Program:       Will use Shaffer Type E double hydraulic BOP 10" Series 900. See Exhibit "E".         Agent for:         Agent for:         Agent for:         May 22, 1980         Agent for:         Agent for:         Agent for:         Casing and Nud Program: If proposal is to drippen or plug back, sive data on proposed new product man. If proposal is to drippen or plug back, sive data on proposed productive scole and proposed new product man. If proposal is to drill or deepen directionaly, give pe	TO NEAREST WELL, DR	ILLING, COMPLETED,	-						
PROPOSED CASING AND CEMENTING PROGRAM         NUMBER OF THE A DOT CASING         NETTING DEFTIN       QUANTITY OF CEMENT         NETTING DEFTIN       QUANTITY OF CEMENT         NETTING DEFTIN       QUANTITY OF CEMENT         Class "C"         Casing and Nud Program: Note in R.V. Rotary, spud 11" hole, drill to 450", run 8 5/8" casing, cement with 400 Sx Class "C", WOC 18 hours, nipple up, test BOP and casing with 1000 FSI, drill 7 7/8" hole to 2,300", mud up at approx.1900" w/36 VIS, 9.5 wt., no WL control, run 1005, if looks commercial, run 4 1/2" casing and cement with 300-350 Sx class "C".         BOP Program: Will use Shaf			, ,	,		1 -	*	ATE WORK	WILL START*
PROPOSED CASING AND CEMENTING PROGRAM         NIZE OF HOLE         NIZE OF HOLE       NIZE OF CASING       WEIGHT FR: POOT       RETTING DEFTH       QCANTITE OF CEMENT         11"       8 5/8"       20 or 24#       450'       400 SXClass "C" Circulate         7 7/8"       4 1/2"       10.5#       2,300'       350 SX Class "C"         Casing and Nud Program:       Nove in R.V. Rotary, spud 11" hole, drill to 450', run 8 5/8" casing, cement with 400 SX Class "C", WOC 18 hours, nipple up, test BOP and casing with 1000 FSI, drill 7 7/8" hole to 2,300", mud up at approx. 1,900" w/36 VIS, 9.5 wt., no WL control, run logs, if looks commercial, run 4 1/2" casing and cement with 300-350 Sx class "C".         BOP Program:       Will use Shaffer Type E double hydraulic BOP 10" Series 900. See Exhibit "E".         NAMONE SPACE DESCRIBE PROGRAM : If proposal is to deepen or plug back, give data on present productive some and proposed new product some for H proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depts. Give blow preventer productive some and proposed new product some. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depts. Give blow preventer program. If any.         24.       Agent for:       Kenai Oil 6 Gas, Inc.       Date May 22, 1980         24.       Agent for:       May 22, 1980         24.       Agent for:       Date May 22, 1980	3,457.8 GR						July 1,	1980	
11"       8 5/8"       20 or 24#       450'       400 SxClass "C" Circulate         7 7/8"       4 1/2"       10.5#       2,300'       350 Sx Class "C" Circulate         Casing and Nud Program:       Hove in R.V. Rotary, spud ll" hole, drill to 450', run 8 5/8" casing, cement with 400 Sx Class "C", WOC 18 hours, nipple up, test BOP and casing with 1000 PSI, drill 7 7/8" hole to 2,300", mud up at approx. 1,900" w/36 VIS, 9.5 wt., no WL control, run logs, if looks commercial, run 4 1/2" casing and cement with 300-350 Sx class "C".         BOP Program:       Will use Shaffer Type E double hydraulic BOP 10" Series 900. See Exhibit "E".         IN ABOVE REACK DESCRIBE PROFORED FROGRAM: If proposal is to deepen or plug back, give data on present productive some and proposed new productive some and true vertical depths. Give blow proventer profuctions in dimensured and true vertical depths. Give blow productive some and true vertical depths. Give blow productive some and proposed new productive some and proposed new productive some and proposed new productive some and true vertical depths. Give blow preventer productive some and proposed new productive some and proposed new productive some and true vertical depths. Give blow preventer productive some and proposed new productive some and true vertical depths. Give blow preventer productive some and true vertical depths. Give blow preventer productive some and proposed new productive some and true vertical depths. Give blow preventer proterman. If any.         10 how prove the proposed is to deepen or plug back. give data on present productive some and propo	-	F	ROPOSED CASIN	G AND CEMEN	NTING PROGRA	M			
11"       8 5/8"       20 or 24#       450'       400 SxClass "C" Circulate         7 7/8"       4 1/2"       10.5#       2,300'       350 Sx Class "C" Circulate         Casing and Nud Program:       Hove in R.V. Rotary, spud ll" hole, drill to 450', run 8 5/8" casing, cement with 400 Sx Class "C", WOC 18 hours, nipple up, test BOP and casing with 1000 PSI, drill 7 7/8" hole to 2,300", mud up at approx. 1,900" w/36 VIS, 9.5 wt., no WL control, run logs, if looks commercial, run 4 1/2" casing and cement with 300-350 Sx class "C".         BOP Program:       Will use Shaffer Type E double hydraulic BOP 10" Series 900. See Exhibit "E".         IN ABOVE REACK DESCRIBE PROFORED FROGRAM: If proposal is to deepen or plug back, give data on present productive some and proposed new productive some and true vertical depths. Give blow proventer profuctions in dimensured and true vertical depths. Give blow productive some and true vertical depths. Give blow productive some and proposed new productive some and proposed new productive some and proposed new productive some and true vertical depths. Give blow preventer productive some and proposed new productive some and proposed new productive some and true vertical depths. Give blow preventer productive some and proposed new productive some and true vertical depths. Give blow preventer productive some and true vertical depths. Give blow preventer productive some and proposed new productive some and true vertical depths. Give blow preventer proterman. If any.         10 how prove the proposed is to deepen or plug back. give data on present productive some and propo	SITE OF BOLK	SIZE OF CASING	WEIGHT PEC FO	OT SET	TING DEPTH	l	QUANTITY ()	FCEMENT	
7 7/8"       4 1/2"       10.5#       2,300'       350 Sx Class "C"         Casing and Mud Program:       Nove in R.V. Rotary, spud 11" hole, drill to 450', run 8 5/8" casing, cement with 400 Sx Class "C", WOC 18 hours, nipple up, test BOP and casing with 1000 PSI, drill 7 7/8" hole to 2,300", mud up at approx. 1,900" w/36 VIS, 9.5 wt., no WL control, run logs, if looks commercial, run 4 1/2" casing and cement with 300-350 Sx class "C".         BOP Program:       Will use Shaffer Type E double hydraulic BOP 10" Series 900. See Exhibit "E".         IN ABOVE BRACE DESCRIBE PROGRAM:       If proposal is to deepen or plug back, give data on present productive some and proposed new productions. See Exhibit "E".         IN ABOVE BRACE DESCRIBE PROGRAM:       If proposal is to deepen directionally, give pertitent data on subsurface locations and measured and true vertical depths. Give blow preventer program, if any.         24.       Agent for:         NUMER       May 22, 1980         (This space for Federal or State office use)       APPROVAL DATE						400 S			culate
Casing and Mud Program: Hove in R.V. Rotary, spud 11" hole, drill to 450', run 8 5/8" casing, cement with 400 Sx Class "C", WOC 18 hours, nipple up, test BOP and casing with 1000 PSI, drill 7 7/8" hole to 2,300", mud up at approx. 1,900" w/36 VIS, 9.5 wt., no WL control, run logs, if looks commercial, run 4 1/2" casing and cement with 300-350 Sx class "C". BOP Program: Will use Shaffer Type E double hydraulic BOP 10" Series 900. See Exhibit "E". Amove Brace Descrates PROGRAM : If proposal is to deepen or plug back, give data on present productive some and proposed new produc zone. If proposal is to drill or deepen directionally, give pertirent data on subsurface locations and measured and true vertical depts. Give blow preventer program, if any. 24. BIGNED									
<pre>run 8 5/8" casing, cement with 400 Sx Class "C", WOC 18 hours, nipple up, test BOP and casing with 1000 PSI, drill 7 7/8" hole to 2,300", mud up at approx. 1,900" w/36 VIS, 9.5 wt., no WL control, run logs, if looks commercial, run 4 1/2" casing and cement with 300-350 Sx class "C".</pre> BOP Program: Will use Shaffer Type E double hydraulic BOP 10" Series 900. See Exhibit "E".  IN AMOVE NEACE DESCRIBE PROPORED PROGRAM: If proposal is to deepen or plug back, give data on present productive some and proposed new product none. If proposal is to drill or deepen directionally, give pertirent data on subsurface locations and measured and true vertical depts. Give blow preventer program. If any. 24. NIGNED					• • • • • • • • • • • • • • • • • • • •				
See Exhibit "E". IS ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive some and proposed new produc zone. If proposal is to drill or deepen directionally, give pertirent data on subsurface locations and measured and true vertical depths. Give blow preventer program, if any. 24. SIGNED	Casing and M	r W 1 a r	un 8 5/8" ca OC 18 hours 000 PSI, dr pprox. 1,900 un logs, if	asing, cen , nipple ill 7 7/8 O" w/36 VI looks con	nent with up, test E ' hole to IS, 9.5 wt nmercial,	400 Sx 30P and 2,300" ., no run 4	Class "C" casing wi , mud up a WL control	, th ,	
zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blow preventer program, if any. 24.  Agent for:  Kenai Oil & Gas, Inc. DATE May 22, 1980 (This space for Federal or State office use)  PERMIT NO.  PERMIT NO.	BOP Prog <b>ra</b> m:			double hy	ydraulic B	op 10"	Series 90	00.	
zone. If proposal is to drill or deepen directionally, give pertirent data on subsurface locations and measured and true vertical depths. Give blow preventer program, if any. 24.  Agent for:  Kenai Oil & Gas, Inc. DATE May 22, 1980 (This space for Federal or State office use)  PERMIT NO.  APPROVAL DATE									
NIGNED     Kenai Oil & Gas, Inc.     May 22, 1980       (This space for Federal or State office use)     PERMIT NO.     APPROVAL DATE	zone. If proposal is to di	rill or deepen directiona	lly, give pertinent	data on subsur	face locations an	esent produ d measured	uctive sone and l and true vertice	proposed ne al depths.	w productive Give blowout
(This space for Federal or State office use) PERMIT NO APPROVAL DATE		· · ·				_			1000
(This space for Federal or State office use) PERMIT NO APPROVAL DATE	SIGNED	<u> </u>		Kenai O	il & Gas,	Inc.	DATE	ay 22,	1980
PERMIT NO APPROVAL DATE								<u></u>	
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	PERMIT NO.			APPBOVA	L DATE	· · · ·			
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APPROVED BY DATE DATE DATE DATE			FITI	.E			DATE		

\*See Instructions On Reverse Side

# NE AEXICO OIL CONSERVATION COMMISSI WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distances must be	from the outer bound	ertes de the Section.		
Cperator Kenai Oil & Gas, Inc.,			,	Federal		Well No. 2
'nit Letter	Section	Township	Range	County	E alalis -	
H Ictual Footage Loc		18 South	27 East		Eddy	
Actual Footage Loc 2290	feet from the NOT	th line on	a 3 <b>30</b>	feet from the	East	line
Ground Level Elev.	Producing For		Pol			cated Acreage;
3457_8	Mete	x/San Andres	Cita	sia		40 Acres
1 Outline th	e acreage dedica	ated to the subject	well by colored p	encil or hachure	marks on the pl	at below.
<ol> <li>If more the interest at</li> <li>If more the</li> </ol>	nan one lease is nd royalty). an one lease of c	dedicated to the w different ownership i	ell, outline each a s dedicated to the	and identify the o	ownership thereo	of (both as to working owners been consoli-
[] Yes	No If a	unitization, force-poe inswer :s ''yes,'' type	of consolidation			(Las reverse side of
this form i	f necessary.) ble will be assign	ned to the well until	all interests have	been consolidate	ed (by commun	. (Use reverse side of itization, unitization, roved by the Commis-
r					CE	RTIFICATION
	RECEIV			-0622	tained herein best of my kno Name	y that the information con- is true and complete to the wledge and belief.
	MAY-22-19	180			George R	• Smith
	J. S. GLULUGICAL ARTESIA, NEW M	IEXICO	• Cobb 3987	d=30 <sup>1</sup>	Position Agent for Company Kenai Oi Date May 22,	l & Gas, Inc.
			STATE STATE	& USAB SURVEYO	shown on this notes of actu under my supe	ify that the well location plat was plotted from field al surveys made by me or ervision, and that the same correct to the best of my d belief.
		1	TAN MET	WET S	Date Surveyed May 14 Registered Prot and/or L and Sur Contine No	essional Engineer
0 330 660	90 1320 1650 1	980 2310 2640	2000 1500 10	00 800	N	PATRICK A ROMERO 6662 Ronald J. E.doon 3235



# N.M.O.C.D COPY United States Department of the Interior

GEOLOGICAL SURVEY F. O. Drawer U Artesia, New Mexico 88210 RECEIVED

JUN 1 2 1980

June 10, 1980 ARTESIA, OFFICE

Kenai Oil & Gas, Inc. 1001 Petroleum Building Midland, Texas 79701 KENAI OIL & GAS, INC. Cobb Fed No. 2 2290 FNL 330 FEL Sec. 22 T.18S R.27E Eddy County Lease No. NM-13987

Gentlemen:

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 2,300 feet to test the San Andres formation is hereby approved subject to compliance with the OIL ANI GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- 1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
- 3. All access roads will be limited to a 12 foot wide driving surface, excluding turnarounds. Surface disturbance associated with road construction will be limited to 20 feet in width.
- 4. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than &" x 5" in size and each page should identify the well.
- 5. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
- 6. Notify the Survey by telephone 24 hours prior to spudding well.
- 7. Cement behind the 8-5/8" and 4-1/2" casing must be circulated.
- 8. Notify Survey in sufficient time to witness the cementing of the 4-1/2" casing.

9. Special Stipulations: Use existing road to locations as illustrated on attached map.

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10. Please have anyone contacting the Survey in regard to this well to identify the well with al. of the information required above for the well sign.

Sincerely yours,

1 - 2 -

George H. Stewart Acting District Engineer

## APPLICATION FOR DRILLING

Kenai Oil & Gas, Inc. Cobb Federal -- Well No. 2 2290' FNL & 330" FEL, Sec 22, T18S, R27E Eddy County, New Mexico Lease: NM 13987 (Development)

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Kenai Oil & Gas, Inc. submits the following items of pertinent information in accordance with USGS requirements:

- The geologic surface formation is quaternay alluvium and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

Yates	2001	Loco Hills	1590'
Queen	1064'	Middle Metex	1650'
Penrose	1471'	Lower Metex	1700 <b>'</b>
Grayburg	1518'	San Andres	1882'

3. The estimated depths at which anticipated water, oil, or gas formations are expected to be encountered:

Water:	Possibley	at	approx.	200	and	1650'

Oil:	Loco Hill at approx. 1592'
	Lower Metex at approx. 1710'
	San Andres at approx. 1996'

Gas: None

- 4. Proposed Casing Program: See Form 9-331C.
- 5. Pressure Control Equipment: See Form 9-331C and Exhibit E.
- 6. Mud Program: See Form 9-331C.
- 7. Auxiliary Equipment: Kelly Cock; pit level indicators and flow sensor equipment; Blow out Preventer; inside blowout preventer.
- 8. Testing, Logging and Coring Program:
  - Logging: Open hole logs: DLL & MLL W/GR Density and CNL from bottom of surface casing to total depth.

Drill Stem Test: None anticipated at this time.

Coring: None.

- 9. No abnormal pressures or temperatures are indicated.
- 10. Anticipated starting date: July 1, 1980. Anticipated completion date: Approximately two weeks after starting date.

MUL -POINT SURFACE USE AND OPERATIO



Kenai Oil & Gas, Inc. Cobb Federal -- Well No. 2 2290' FNL & 330' FEL, Sec 22, T18S, R27E MAY 2.3 1300 Eddy County, New Mexico Lease: NM 13987 (Development) U.S. ELEVICEY ARTESIA, NEW MEXICO

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

- 1. EXISTING ROADS
  - A. Exhibit "A" is a portion of a New Mexico State Highway Map showing the location of the proposed well as staked, approximately 19 road miles southeast of Artesia, New Mexico.
  - B. Travel east on U.S. Highway 82 approximately 10 miles east of the junction of U.S. 285 and U.S. 82 in Artesia. Turn southeast on paved road just past Highway Marker 117. There is an old Depco sign at turnoff. Travel 3.5 miles southeasterly turning south at "Y" passing the Phillips Petroleum processing plant on right. Turn southwest 2.6 miles past "Y" onto dirt road crossing a cattle guard .7 mile from paved road, circle a ranch house, cross another cattle guard. Turn right (NW) through a ranch gate .7 mile west of the second cattleguard, passing Yates Metex well on the right. Proceed northwest .3 mile form gate turning left at fork in road crossing under powerline. Continue westerly 1.3 miles passing oil storage tanks on left. The proposed access road will start 200' east of Cobb Federal Well No. 1 wellsite traveling south to proposed location.
  - C. The proposed access road will start at this point at Well No. 1 moving due south for 1300' to enter the southeast corner of the proposed wellsite. The proposed road is marked by surveyors stakes and ribbons.
- 2. PLANNED ACCESS ROADS:
  - A. Length and Width: The new access road will be 12 feet wide (20' ROW) and appoximately 1,300 feet long, from the point of origin just east of the Cobb Federal Well No. 1 wellsite to the edge of the proposed drilling pad. The new access road is labeled and color coded in red on Exhibit "A" and "B". The centerline of the new road has been staked and flagged.
  - B. Construction: The new road will constructed by grading and topping with the existing soil compacted. Compacted caliche will be used if necessary. The surface will crowned, with adequate drainage.
  - C. Turnouts: There will be at least one turnout located at the midpoint of the proposed road. This will increase the width of new road to 20 feet for a distance of 30 feet.

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Kenai Oil & Gas, Tnc.
Cobb Federal Wel o. 2
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- 2. D. Culverts: None required.
  - E. Cuts and Fills: None required.
  - F. Gates, Cattleguards: None required.
- 3. LOCATION OF EXISTING WELLS:
  - A. Existing wells within a one mile radius are shown on Exhibit "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
  - A. Location of the existing tank battery and the proposed flow line from Well No. 2 to the existing tank battery are shown on Exhibit "Bl". If the proposed well is completed for production the new flow line, as shown, will follow the proposed access road and will not be buried. No additional surface disturbance will occur.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
  - A. It is planned to drill the proposed well with fresh water. The water will be obtained from commercial sources and will be trucked to the wellsite over the existing roads and the proposed access road shown on Exhibit "A" and "B".
- 6. SOURCE OF CONSTRUCTION MATERIALS:
  - A. The top soil and surface materials from the proposed wellsite and access road will be used for surfacing. However, if any caliche is required for surfacing, it will be obtained from an existing pit located on a state lease in the NE½ of the NE½ of Sec. 23, T18S, R27E. Top soil will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except for those necessary for actual grading and leveling of the drill site and access road.
- 7. METHODS OF HANDLING WASTE DISPOSAL:
  - A. Drill cuttings will be disposed of in the reserve pits.
  - B. Drilling fluids will be allowed to evaporate in the reserve pits.
  - C. All pits will fenced with normal fencing material to prevent livestock from entering the area.
  - D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the USGS for approval.
  - E. Oil produced during operation will be stored in tanks until sold.
  - F. Current laws and regulations pertaining to the disposal of human waste will be complied with.

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Kenai Oil & Gas, c.
Cobb Federal Wel. .o. 2
Page 3
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- 7. METHODS OF HANDLING WASTE DISPOSAL cont.:
  - G. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
  - H. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

### 8. ANCILLARY FACILITIES:

A. None required.

- 9. WELLSITE LAYOUT:
  - A. Exhibit "D" shows the relative location and dim sions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
  - B. Some minor levelling of the wellsite will be required, cutting from the south and southeast and filling to the northwest because of the l' per 100' slope to the northwest.
  - C. The reserve pit will be plastic lined.
- 10. PLANS FOR RESTORATION OF THE SURFACE:
  - A. After completion of drilling and/or completion operations all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing a condition as possible.
  - B. Any unguarded pits containing fluids will be fenced until they are filled.
  - C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abondonment, or as soon as practical.

#### 11. OTHER INFORMATION:

- A. Topography: The land surface in the vicinity of the wellsite is gently sloping approximately 1' in a 100' to the northwest.
- B. Soil: The topsoil at the wellsite is a sandy clay loam with limestone and gypsum outcropping.
- C. Flora and Fauna: The vegetative cover consists of very sparse miscellaneous grasses, mesquite, creosote bush along with other miscellaneous desert flowers and weeds. Coyotes and rabbits were observed in the area and other wildlife probably includes those typical of semi-arid desert land.

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Kenai Oil & Gas, The.
Cobb Federal Well D. 2
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- 11. OTHER INFORMATION cont.:
  - D. Ponds & Streams: There are no rivers, streams, lakes or ponds in the area.
  - E. Residences and Other Structures: There are no residences or other structures in the vicinity of the proposed well.
  - F. Land Use: Cattle grazing.
  - G. There is no evidence of any archaeological, historical or cultural sites in the area. NMAS of Carlsbad is submitting a report.
  - H. Surface Ownership: The well site is on Federal surface.
- 12. OPERATOR'S REPRESENTATIVE:
  - A. The field representative responsible for assuring compliance with the approved surface use and operations plan for Kenai Oil & Gas, Inc. is:

Mr. D. T. Howell, Mgr. Kenai Oil & Gas, Inc. 1001 Petroleum Building Midland, Texas 79701 Telephone: Off.: (915) 685-1725 Hm. : (915) 685-4179

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by Kenai Oil & Gas, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

DATE: May 22, 1980

George R. Smith Agent for: Kenai Oil & Gas, Inc.





SEC. 22, T188, 627E

Scale: 1" = 1000'

EXHIBIT "B-1" NEWAI OIL & GAS, INC. Cobb Federal Well N. 2 Eddy County, New Mexico





BLOWOUT PREVENTER SPECIFICATION

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