Form 9-331 C		NTO.	C.D. CORT IN TI	I CATE	 Form approved, Budget Bureau, No. 42 R1425.
(May 1983)		ED STATES	reverse s		30-015-23535
	DEPARTMENT	OF THE INTE	RIOR	6	5. LEASE DESIGNATION AND SERIAL NO.
	GEOLO	GICAL SURVEY			111 8940
APPLICATION	N FOR PERMIT T	O DRILL, DEEF	PEN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK DRI		DEEPEN	PLUG BA	ск 🗌	7. UNIT AGREEMENT NAME
	S OTHER		SINGLE MULTH ZONE ZONE	PLB	S. FARM OR LEASE NAME
Eagle Oil &	Gas Co.				Crow Flats "A" Fed. Con. 9. WELL NO.
ADDRESS OF OPERATOR			76001		
4. LOCATION OF WELL (R At surface	n Building Wich	in accordance with any			10, FIELD AND FOOL, OR WILDCAT Undesignated 11. SEC. T., R., M., OR BLK.
1980* At proposed prod. zon	FSL and 660'FEI	•			AND SURVEY OR AREA
Same					Sec. 19, TI6S, R2GE
	AND DIRECTION FROM NEAD		• •	rico	
Approximates 15. DISTANCE FROM PROPU- LOCATION TO NEAREST PROPERTY OR LEASE 1	r.	16. 1	NO. OF ACRES IN LEASE	17. NO. (<u>Eddy</u> <u>New l'exico</u> his well 320
(Also to nearest drig 18. DISTANCE FROM PROP	g, unit line, if any)		ROPOSED DEPTH		RY OR CABLE TOOLS
TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	lone	9,500'	Re	otary
1. ELEVATIONS (Show who	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*
· · · · · · · · · · · · · · · · · · ·	90.9 GR				November 5, 1980
3.	I	ROPOSED CASING AN	D CEMENTING PROGR	АМ	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	420'		x Class "C" Circulated
<u>11''</u> 7 7/8''	$\frac{8 5/8!!}{4^{1}_{2}!!} \text{ or } 5^{1}_{2}!!$	24# 11.6 or 17#	<u>1880'</u> 9500'	1	S <u>x Class "C"</u> x Class "H"
Mud Program: 0-420:			1 8.5-10.0 ppg.		
420-3800	D': Drill with	fresh water, 1	1.W. 8.7 - 9.0 I	ppg., V: g., vis	is. 28-34. . 30-35, fluid loss
	12-20 cc. Possible ad	dition of loss	s circulation ma	nterial	between 420-3800'.
					blind rams (middle) β^{3}
BOP Program:	bag-type prev be sufficient	venter and chol to operate th	ce manifold, BOH	r and b	ulator volume will γ lind rams with a
	snap-action	Inrough the cro	ose, open, crose	e seque	nce. REGENTED
Gas Sales an	re dedicated to	Gas Company of	E New Mexico.		NOV 07 1980
N ABOVE SPACE DESCRIBE one. If proposal is to preventer program, if an	drill or deepen directions	, proposal is to deepen or Hy, give pertinent data	plug back, give data on p on subsurface locations a	present prod und measure	luctive zone and proposed tew productive d and true vertical depthst "Give blowout ARTESIA CONTREL
4.	Crown St.		Agent for: Eagle Oil & Gas	Co.	October 27, 1980
(This space for Fede	eral or State office use)				
PERMIT NO			APPROVAL DATE		
(Orig. Soil) GEORGE H. STE	MARI SC	TING DISTRICT	ENGINE	ER
APPROVED BY		TITLE	A		DATE OCT 2 0 1989
CONDITIONS OF APPROV	AL, IF ANY :				

*See Instructions On Reverse Side

,

N MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

, ----

.

All dista	inces must be from the o	uter bounderies	of the Section.		
Eagle Oil & Gas	Co.	Crow Fl	ats "A"	Fed.	Weil No.
	·	nge	County	red.	
I 19 16		28 East	Chav	/es	
Actual Friedage Location of Well: 1980 feet from the south	line and	660 1	eet from the	east	line
Ground Level Elev. Producing Formation		Yow Fla			icated Acreage:
3590.9 Morrow		Undesign	•		320 Acres
1. Outline the acreage dedicated to the	e subject well by a	olored pencil	or hachure	marks on the pl	at below.
 If more than one lease is dedicated interest and royalty). 	l to the well, outli	ne each and id	dentify the o	wnership there	of (both as to working
 If more than one lease of different or dated by communitization, unitization 	, force-pooling. etc	?			owners been consoli-
X Yes No If answer is '	'yes,' type of conso	olidation	Commun	itization	
If answer is "no," list the owners an this form if necessary.)	id tract description	s which have	actually bee	n consolidated	. (Use reverse side of
No allowable will be assigned to the forced-pooling, or otherwise) or until a	well until all intere non-standard unit,	sts have been eliminating s	consolidate uch interests	ed (by commun s, has been app	itization, unitization, roved by the Commis-
sion.					
1				CE	RTIFICATION
i i		1			
1	V	1	c/	-	y that the information con-
	Yates Dril Abo Pet.	ling 10	1		is true and complete to the
	Martin Yat	1		1	wledge and belief.
	Yates Pet	1		Decia	ek. Smith
	N.M. Stat	e Lease	LG-8379	Name D	Cmith
		. '		George R.	
		i.		Agent for	•
		l		Company	
		1			& Gas Co.
	Samedan C		50%	Date	1000
R TICENTED	Dow Chem. NM 14477	. Corp	50%	October 2	27, 1980
	<u> </u>				
OCT 2 8 1990				I hernby cert	ify that the well location
SIRVEL.		1			plat was plotted from field
U.S. GEULUGIUAL GUILA GARTESIA, NEW MEXICO	NATE SEA		~~ 660		al surveys made by me or irvision, and that the same
ARIESIA, ILLI	2 3	i i			correct to the best of my
	676		l	knowledge and	
	<u>['''' S -</u>	++			
	0/2/	l			
	MEXICO	-	·	Date Surveyed	t.21,1 98 0
	. WEST			L	essional Engineer
	Mesa Pet	. Corp 5	0%	and/or Land Sur	-
	InterNor		0%	0 n	
	NM 8940			Sin	JOHN W. WET 676
					ATRICK A. ROMERO
0 330 660 '90 1320 1650 1980 2310 2	840 200 0 1 8	00 1000	<u>500 o(</u>	<u>K</u> !	onald J. Eidson 323



U. .ed States Department of the Interior RECEIVED

GEOLOGICAL SURVEY

SPECIAL APPROVAL STIPULATIONS

NOV 0 7 1980

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN:

O. C. D. ARTESIA, OFFICE

NO. 1

EAGLE OIL AND GAS COMPANY Crow Flats "A" Fed Com No. 1 NE¹SE¹ Sec. 19 T. 16S R. 28E Eddy County New Mexico Lease No. NM-8940

THE SPECIAL STIPULATIONS CHECK MARKED BELOW ARE APPLICABLE TO THE ABOVE-DESCRIBED WELL AND APPROVAL OF THIS APPLICATION TO DRILL IS CONDITIONED UPON COMPLIANCE WITH SUCH STIPULATIONS. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE SPECIAL STIPULATIONS PURSUANT TO TITLE 30 CFR 290.

- 13%" surface casing should be set in the Rustler Anhydrite formation and Α. cement circulated to the surface. If surface casing is set at a lesser depth, casing must be cemented from the casing shoe to the surface or the cemented to the surface through a stage tool set at least 50 feet below the top of the Rustler after cementing around the shoe with sufficient cement to fill to the base of the salt section.
 - B. Before drilling below the 8 / casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.
 - **C.** Casing protectors will be run on drill pipe while drilling through the casing. Protectors will be of sufficient number and of sufficient outside diameter to protect the casing.
- - D. Minimum required fill of cement behind the _____ casing is to _____
 - Ε. pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.



F. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the CARAP formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- A recording pit level indicator to determine pit volume gains and losses.
- (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
- (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
- G. All pits containing taxic liquids will be fenced and covered with a fine mesh netting, if necessary for the protection of livestock or wildlife.
 - H. Above ground permarent structures and equipment shall be painted in accordance with the Painting funcelines. The paint color is to simulate

😰 Strostory Erbyr. Ced. Std. 595-00318 on 30338

Ι.	A kelly cock will	b€	installed	and	maintain⊶d	ίĐ	operable condition.	
----	-------------------	----	-----------	-----	------------	----	---------------------	--



J. The ARTESIA Sub-District Office is to be notified in sufficient time for a representative to witness:

- (a) Spudding
- (b) Cementing casing

 inch
 inch
 inch

(c) -BOP-tests

K. A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the U. S. Geological Survey, P. C. Box 26124, Albuquerque, New Mexico 87125. The effective date of the agreement must be prior to any sales.

. A Gamma Ray-Compensated Neutron log is required from the base of the salt section to the surface with cable speed not to exceed 30 feet per minute.

M. At least one working cay prior to constructing the well pad, access roads and/or related facilities, the operator or dirt contractor shall notify the authorized officer (Bureau of Land Management, <u>HARLS EDD</u> area). He shall also notify the Authorized Officer within two working days after completion of earth-moving activities.

All access roads constructed in conjunction with the drilling permit (APD) will be limited to a <u>12</u> foot wide driving surface, excluding turnarounds. Surface disturbance associated with construction and/or use of the road will be limited to <u>100</u> feet in width. If well is a producer, all roads will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts and/or any other measures deemed necessary by the authorized officer of the BLM. The following is a general quide for the spacing of water bars:

% Slope

0.

X

less	than	2%												200	ft.
2% to	44													100	ft.
4% to	5%												•	75	ft.
more	than	5 <i>%</i>						•				•	•	50	ft.
Other	r spei	cial	S	ti	pι	Лă	11	io	٦S						

Any permanent pit containing waste oil must be fenced and covered with mesh wire.

"b Upon abundament the location will be re-seeded. This is due to critical short grass habitat.

APPLICATION FOR DRILLING

EAGLE OIL & GAS CO. Crow Flats "A" Federal Com. Well No. 1 1980' FSL & 660' FEL, Sec. 30, T16S, R28E Eddy County, New Mexico Lease No.: NM 8940 (Exploratory Well)

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

- 1. The geologic surface formation is the Seven Rivers.
- 2. The estimated tops of geologic markers are as follows:

Yates	262*	Canyon	7940'
Queeń	972 1	Strawn	8578 '
San Andres	1755'	Atoka	9000
Glorietta	32001	Morrow	9220"
Abo	5200'	Total Depth	9500 '
Wolfcamp	64501		
Cisco	7520		

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

Water: At the Glorietta between 3200' - 3354'.

- Oil: Queen at approximately 972' 1755'. Premier between 1715' - 1755'. Wolfcamp between 6820' - 7130'.
- Gas: Atoka between 9150' 9165'. Morrow between 9220' - 9524'.
- 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: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests:	-	in each of the following:
	Wolfcamp:	6820 '- 7130'
	Atoka:	9150'-9165'
	Morrow:	9220'-9524'
Logging: GammaRa	y:	Surface to T. D.
FDC/CNL		Int. Csg. to T. D.
Dual In	duction Laterolog	Int. Csg. to T. D.
Coring: None.		

- 9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight.
- 10. Anticipated starting date: November 5, 1980. Anticipated completion of drilling operations: Approx 60 days.

EAGLE OIL & GAS CO. Crow Flats "A" Federal Com. Well No. 1 1980' FSL & 660' FEL, Sec. 19, T16S, R28E Eddy County, New Mexico Lease No.: NM 8940 (Exploratory Well)

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 well location as staked. The well is approximately 18 miles northeast of Artesia, NI. The 18 miles consists of 9.6 miles of U. S. Highway 82, 7 miles of oil field and pipeline right of way dirt roads. See Exhibit "B" for more detail of the proposed location and access roads.
- B. Directions: Travel east of the junction of U. S. Highway 285 and 82 in Artesia, 9.6 miles on U. S. Highway 82, to the electric power station on the left (north). Turn left on the dirt access road just east of the power station, traveling 3.7 miles along the power line to a "Y" just west of the old gas company camp. Turn northwest traveling approximately 2.3 miles to a cattleguard passing a pipeline station on the right. Cross the cattleguard and turn right crossing under the powerline taking the right hand road northeast, which is a continuation of the Dog Canyon Road. Travel 2.7 miles from the cattleguard to the El Paso Natural Gas Co. pipeline ROW crossing. Turn right at the El Paso Natural Gas Co. sign and follow the pipeline ROW for approximately .3 mile passing an abandoned wellsite on the right. The proposed access road will start on the left of the ROW just past the old wellsite and is staked and flagged.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The new access road will be 12 feet wide (20' ROW) and approximately 1,000 feet long, from the point of origin from the existing pipeline ROW to the southwest corner of the drilling pad. The new access road is labeled and color coded red on Exhibit "A" and "B". The road has been staked and flagged.
- B. Construction: The new road will be constructed with existing surface materials and also grading and topping with compacted caliche where necessary.
- C. Turnouts: There will be at least one 20 foot turnout for passing.
- D. Culverts: There will be one culvert at the turn after crossing the cattleguard on the Dog Canyon Road.
- E. Cuts and Fills: None.
- F. Gates, Cattleguards: None required.

Eagle Oil & Gas Co. Crow Flats "A" Federal Com. Well No. 1 Page 2

- 3. LOCATION OF EXISTING WELLS:
 - A. Existing wells within a one to two mile radius are shown on Exhibit "C".
- 4. LOCATION OF EXISTING AND?OR PROPOSED FACILITIES:
 - A. There are no production facilities on this lease at the present time.
 - B. If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery will be installed on the drilling pad.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
 - A. It is planned to drill the proposed well with both fresh and brine water. The water will be obtained from private or commercial sources and will be transposrted over the existing and proposed access roads.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
 - A. Existing surface materials will be used where possible. Caliche for surfacing the remainder of the road and the well site pad will be obtained from an existing pit located on State land in the SE¹₂, SE¹₂, Sec. 35, Tl6S, R27E. Top soil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except for those necessary for actual grading and 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 until the pits are dry.
 - C. All pits will be 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 operations will be stored in tanks until sold.
 - F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - 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.

Eagle Oil & Gas.Co. Crow Flats "A" Federal Com. Well No. 1 Page 3

8. ANCILIARY FACILITIES:

A. None Required:

- 9. WELLSITE LAYOUT:
 - A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
 - B. Mat Size: 270' X 260'.
 - C. Cut and Fill: The location will require a 2 3 foot cut on the north and filled to the south side of the pad.
 - D. The surface will be topped with compacted caliche and 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 materil 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 abandonment.

11. OTHER INFORMATION:

- A. Topography: The land surface in the vicinity of the wellsite is relatively smooth with 2 to 3 foot slope per 100 feet to the south.
- B. Soil: The topsoil at the wellsite is a limey sandy loam, underlain with gypsum and with occasional outcrops of limestone that also make up part of the rocky cliffs about 600 feet to the north of the wellsite.
- C. Flora and Fauna: The vegetative cover consists of very sparse miscellaneous frasses, including Tobosa, Grama, Three-on, Bristle. Miscellaneous plants including Mespuite, Creosote, Cactus, Yucca Javelina and other miscellaneous desert flowers and weeds. Rabbits were the only wildlife observed but it is likely that other typical semi-arid desert wildlife inhabit the area, which is used for cattle grazing.
- D. Ponds and Streams: None in the immediate vicinity.

Eagle Oil & Gas Co. Crow Flats "A" Feder Com. W_ell No. 1. Page 4

- 11. OTHER INFORMATION cont.....:
 - E. Residences and Other Structures: There are no residences or other structures in the vicinity of the wellsite.
 - F. Land Use: Cattle Grazing.
 - G. Surface Ownership: Federal surface and minerals.
 - H. There is no evidence of any archaeological, historical or cultural sites in the area. An archaeological survey has been conducted by New Mexico Archaeological Services, Inc., P. O. Box 1341, Carlsbad, New Mexico 88220, and their report has been submitted to the appropriate government agencies.
 - I. The appropriate Right of Way owners and surface leaseholder have been notified of this application and the crossing of their property.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Don BennettJunior BishopPetroleum Technical ServicesPetroleum Technical ServicesSuite 400 Building of the SouthwestSuite 400 Bldg. of the SouthwestMidland, Texas 79701Midland, Texas 79701(915) 684-6603/Office(915) 684-6603/Office(915) 694-9763/Home(915) 684-6264/Home

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 the 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 Eagle Oil & Gas Co. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

October 27, 1980

Shilliger Couch

George R. Smith Agent for Eagle Oil & Gas Co. Phone: (505) 623-4940





900 SERIES MORANCO RIGS 5-6-9



ENVIENT "D" EAGLE OIL & GAS CO. BLOWOUT PREVENTER SPEC. Crow Flats "A" Federal Con. Well No. 1

Eddy County, New Mexico

