(formerly 9-331C)	DEPARTMEN	-	NTEF			August 31, 1985 GNATION AND BERIAL NO.
	BUREAU OF				NM-1586 6. IF INDIAN,	2 ALLOTTEB OB TRIBE NAME
	N FOR FERMIT	TO DRILL,		IN, ON FLOOD	<u></u>	
1a. TYPE OF WORK DR b. TYPE OF WELL	NLL X	DEEPEN		PLUG BAG	K 7. UNIT AGEE	CMENT NAMB
	WELL X OTHER	,		NGLE X MULTIP	S. FARM OR L	EASE NAME
2. NAME OF OPERATOR		./	`	nneth Smith)	QUAIL I	EDERAL
	N DRILLING COME	ANY	(505	5-396-5538)	9. WELL NO.	
3. ADDRESS OF OPERATOR		70702		(ICT 15 Ha RUELD AND	POOL, OR WILDCAT
P.O. Box 165	9, Midland, Tex Report location clearly an	as /9/02	th any S	tate requirements.*)]	
At surface	Report location clearly an	u in accordance wi	un any c		O, C, D 11. SEC., T., E	Slope Abo
	0'FEL of Sec.4-	6S-25E		$\lambda \chi$ (In4)	O. C. D. 11. SEC., T., R AND SUBV	ET OR AREA
At proposed prod. zo Same	ne			W (SEL		5S-25E
	AND DIRECTION FROM NE.	BEST TOWN OR POS	ST OFFICI		Deerry	R PABISH 13. STATE
	north-northeas				Chaves	N.M.
15. DISTANCE FROM PROP	PUSED*	'60'	16. NO	OF ACRES IN LEASE	17. NO. OF ACRES ASSIGN TO THIS WELL	(ED
LOCATION TO NEARES PROPERTY OR LEASE	ST LINE, FT. (7	35')	17	759.06	181	. 56
18. DISTANCE FROM PRO	POSED LOCATION*	- ,	19. PR	OPOSED DEPTH	20. ROTARY OR CABLE TO	0L8
TO NEAREST WELL, OR APPLIED FOR, ON TH	DRILLING. COMPLETED.	200'	43	300' Abo	Rotary	
21. ELEVATIONS (Show w)	hether DF, RT, GR, etc.)		<u>·</u>			DATE WORK WILL START*
3989' G.L.					October	7, 1990
23.		PROPOSED CAS	ING ANI	CEMENTING PROGRA	4	
		WEIGHT PER I		SETTING DEPTH		OF CEMENT
SIZE OF HOLE	BIZE OF CASING	32.75# H-		900'±		
$\frac{14-3/4"}{2}$	<u> </u>		-55	4300'±	± 400 sacks	
9-7/8 & 7-7/8"	4-1/2	9.301 K		4500 -	- 400 Buckb	Post ID-
						Post ID-1 10-19-90 Newbock K
						newbock K
9-7/8" hole wi	11 be reduced t	o 7-7/8" a	t ±180	оо' (200-300' b	elow top of the	Glorieta).
Production cas	sing will be cer	mented with	suff	icient cement t	o come back to	a minimum of
600' above the	e Abo.					
Abo pay zone v	will be selectiv	vely perfor	ated .	and stimulated	as needed for o	ptimum
production.						
			~			1: 1:
Attached are:	1. Well Locat:			dication Plat	1	
	2. Supplement	-	Data		1	
	3. Surface Us	e rian				K
0 61	amagaa is set	dodicated			l l	
Gas for this a	acreage is not	leurcaleu.				
		· · · · · -		lug back sins data on n	resent productive cone en	i propoved new productiv
IN ABOVE SPACE DESCRIPTION OF THE SPACE DESCRIPTION OF THE DESCRIPTION OF THE SPACE DESCRIPTION	BE PROFOSED PROGRAM : If o drill or deepen direction	proposal is to de ally, give pertine	epen or j nt data (on subsurface locations a	resent productive zone an nd measured and true vert	ical deputer [Fave both
preventer program, if a		·				<u>```</u>
24.	h_7				_	. 1 01 100
BIGNED	MI M. Xa	Up I	ITLE Pe	rmit Agent	DATES	eptember 21,1990
/JER	RY W. LONG					
(This space for Fed	leral or State office use)]				
	ş			APPROVAL DATE		00T 1 8 4000
PERMIT NO.						OCT 1 0 1990
PERMIT NO.	undue I' Dover	nta	T	57][
PERMIT NO.	aundra L. Porei	тат	ITLE Ar	a Managèr	DATE _	

IN ADTAILES U.S.C. Section 1001, makes it a crime for any person knowing the state of the section of the sectio

Submit to Appropriate District Office State Lasso - 4 copies Fee Lasso - 3 copies

. . DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Deaver DD, Astonia, NM \$1210

DISTRICT III 1000 Rin Bennes Rd., Anter, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

						Wei No.
GREA	I WESTERN	DRILLING C		Quail Fede		8
P Se	ection 4	Towedip 6	South	25 East	Com NMCM	Chaves
tuni Footage Location	t of Well:					
760 🏚	at from the	South	line and	900	feet from the	East line Dedicated Acrosps:
cund level Elev.	Produc	ing Formation	l l	Pecos Slope Ab	2	181.56 Acres
3989.0		Abo	L	i or hadings marks on the pla		
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SUPPLEMENTAL DRILLING DATA

GREAT WESTERN DRILLING COMPANY No.8 Quail Federal 760'FSL 900'FEL Sec.4-6S-25E Chaves County, N.M.

NM 15862

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Order No.1:

1. SURFACE FORMATION: Artesia Group of Permian Age

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

San Andres	550'
Glorieta	1600'
Tubb	3000'
Abo	3650'

3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

Water - 50' to 150' and 500' to 650'

Oil - 950' to 1200'

Gas - 3650' to 4300'

4. PROPOSED CASING PROGRAM:

10-3/4" Casing - 900' of 32.45#, H-40, ST&C

4-1/2" Casing - 4300' of 9.5#, K-55, ST&C

The surface and production casing strings will be tested to 1000 psi.

5. <u>PRESSURE CONTROL EQUIPMENT</u>: Pressure control equipment will include a 2000#WP blowout preventer stack, with Series 900 blind and pipe rams. The BOP stack will include a kill line and choke manifold tested to 1000 psi. BOP hydraulic controls will be operated at least daily. A diagrammatic sketch of the BOP stack is attached as <u>Exhibit "D"</u>.

A request for pressure test Variance is attached.



- 6. <u>CIRCULATING MEDIUM</u>: Fresh water mud conditioned for control of weight, viscosity and water loss.
- 7. <u>AUXILIARY EQUIPMENT</u>: A full-opening safety valve, to fit the drill string in use, will be kept on the rig floor at all times.
- 8. TESTING, LOGGING AND CORING PROGRAM:

<u>Samples</u>: Samples will be caught at 10' intervals below 900'.

- DST and Cores: At discretian of well site geologist.
- Logging: Neutron Density Log (Surface to TD)
- 9. <u>ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE</u>: None anticipated. Bottom-Hole pressure anticipated to be less than 900#.
- 10. <u>ANTICIPATED STARTING DATE</u>: Drilling will commence as soon as approval is obtained. Drilling and completion operations will last about 30 days.



PERTINENT INFORMATION

For

GREAT WESTERN DRILLING COMPANY No.8 Quail Federal 760'FSL 900'FEL Sec.4-6S-25E Chaves County, N.M.

LOCATED:	30 air miles north-northeast of Roswell, New Mexico
FEDERAL LEASE NUMBER:	NM-15862
LEASE ISSUED:	July 1, 1972 - Held by Production
ACRES IN LEASE:	1759.06 Ac.
RECORD LESSEE:	Great Western Drilling Company - 64.476% Davoil, Inc 35.524%
BOND COVERAGE:	Operators \$150,000 Nationwide Bond
AUTHORITY TO OPERATE:	Operating Agreement
SURFACE OWNERSHIP:	Public
GRAZING PERMITTEE:	Corn Brothers, Inc. HCR 31, Box 1098 Roswell, New Mexico 88201 Ph.505-623-4043
POOL RULES:	160 Ac. (Pecos Slope Abo Gas Pool)
EXHIBITS:	A. Road and Contour Map B. Lease and Well Map C. Rig Layout

D. BOP Diagram



MULTI-POINT SURFACE USE AND OPERATIONS PLAN

GREAT WESTERN DRILLING COMPANY No.8 Quail Federal 760'FSL 900'FEL Sec.4-6S-25E Chaves County, N.M.

NM 15862

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, the magnitude of necessary surface disturbance involved, and the procedures 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 operation.

1. EXISTING ROADS:

- A. <u>Exhibit "A"</u> is a portion of a road map showing the location of the proposed well as staked. The well is approximately 30 air miles north-northeast of Roswell, New Mexico.
- B. <u>Directions</u>: From Chaves County Courthouse in Roswell, N.M., go 30 miles north on Hwy. 285 to County Road C-38A. Turn east and go 7.9 miles. Turn southeast and go 2.5 miles on C.R. 45. Go northeast 0.5 mile on new road to the proposed No.8 location.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be about 0.5 mile long and about 20' wide, including the shoulders. The road centerline has been flagged.
- B. <u>Surfacing Material</u>: The new road will be surfaced with caliche, if necessary.
- C. Maximum Grade: Less than 1%
- D. <u>Turnouts</u>: Since the road is essentially flat, no traffic turnouts are necessary.
- E. <u>Drainage design</u>: The road will be constructed with about 4" of crown at the centerline. Water turnouts will be constructed at 300' intervals.

- F. Culverts: None necessary
- G. <u>Cuts and Fills</u>: The well pad will require about 2' of cut on the southwest corner and about 1' of fill on the north and east sides. About 5" of topsoil from the pad will be stock-piled on the north and east sides of the pit for use in rehabilitation.
- H. Gates, Cattleguards: None
- I. <u>Right-of Way</u>: A Public Land Right-of-Way is requested for the off-lease portion of the access road. The R-O-W will start 400' south of the gas well in the NE/4 Sec.9 and go about 3000' northeast to proposed location.
- 3. LOCATION OF EXISTING WELLS:

A. Existing wells are indicated on EXHIBIT A.

- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. If the well is productive, production, storage and measurement facilities will be constructed on the wellpad.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
 - A. Water for drilling operations will be purchased from a commercial water hauler.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
 - A. Necessary caliche for surfacing the road and pad will be obtained from a privately-owned pit located in the NWSE Sec.7-6S-26E.
- 7. METHODS OF HANDLING WASTE DISPOSAL:
 - A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during test will be disposed of in the drilling pits. Oil produced during test will be stored in test tanks until sold.
 - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.



- E. Trash, waste paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of soil. All waste material will be contained to prevent scattering by the wind. The trash pit will be located adjacent to the mud pit.
- F. 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 necessary
- 9. WELL SITE LAYOUT:
 - A. The wellsite and 400' X 400' area have been surveyed and flagged. Tentative location of the mud pit has been flagged at the request of BLM.

SEP .

- B. Dimensions and relative location of the drill pad, pit and equipment are shown on EXHIBIT C.
- 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 the location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. If the well is non-productive, the disturbed area will be rehabilitated to Federal Agency requirements and will be accomplished as expeditiously as possible.

11. OTHER INFORMATION:

- A. <u>Topography</u>: The regional terrain is a rolling alluvial plain sloping to the east toward the Pecos River. The access road and wellsite is essentially level.
- B. <u>Soil</u>: The soil at the wellsite is sandy clay loam with associated gravels.
- C. <u>Flora and Fauna</u>: Flora consists of range grasses with some yucca and mesquite. Location was moved to protect salt water cedar growing east and southwest of the drillsite. No wild life was observed. Fauna probably includes reptiles, rodents and various birds.

- D. <u>Ponds or Streams</u>: There are no ponds near the wellsite. The Pecos River is 6 miles east.
- E. <u>Residences and Other Structures</u>: There are no occupied dwellings within 2 miles.
- F. Archaeological, Historical and Other Cultural Sites: Archaeology Survey Consultants, of Roswell, N.M., has made a survey of the proposed new road and wellsite. They have recommended that construction work be approved.
- G. <u>Land Use</u>: The vicinity surrounding the wellsite is semiarid rangeland, used primarily for grazing.
- H. <u>Surface Ownership</u>: The new access road and wellsite are on Public Surface. The grazing lessee is Corn Brothers, Inc., HCR 31, Box 1098, Roswell, N.M. 88201.

12. OPERATOR'S REPRESENTATIVE:

Representative responsible for assuring compliance with the approved Surface Use Plan:

Mr. Kenneth W. Smith, Division Supt. 10 West Adams Lovington, New Mexico 88260 Phone 505-396-5538

13. CERTIFICATION:

I hereby certify that I, or person 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; that the work associated with the operations proposed herein will be performed by GREAT WESTERN DRILLING COMPANY and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

September 21, 1990 Date:

LONG, Permit Agent for: 2/RY W. GRÉAT WESTERN DRILLING COMPANY





GREAT WESTERN DRILLING COM NY No.8 Quail Federal 760'FSL 900'FEL Sec.4-6S-25E Chaves County, N.M.

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GREAT WESTERN DRILLING COMPANY No.8 Quail Federal 760'FSL 900'FEL Sec.4-6S-25E Chaves County, N.M.

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GREAT WESTERN DRILLING COMPANY No.8 Quail Federal 760'FSL 900'FEL Sec.4-6S-25E Chaves County, N.M.

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BOP DIAGRAM

2000# Working Pressure Rams Operated Daily

