Form 9-331 C (May 1963)		N.M.O.C.D. COPY(Other inst. 1008 on UNITED STATES reverse side) 30-005-6					erl. u No. 42-R1425.		
	DEPARTMENT OF THE INTERIOR					5. LEASE DESIGNATION	AND SERIAL NO.		
<u> </u>	<u>198</u>	GEOLOGICAL SURVEY					NM 16626		
APPLICA	APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 6. IF INDIAN, ALLOTTEE OR TRIBE NAME							E OR TRIBE NAME	
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b. TYPE OF WELI OIL WELL	GAS WELL X	OTHER		SH ZO	NGLE MULTIP	LE	8. FARM OR LEASE NA	ME	
2. NAME OF OPER					REC:	GEV	Harris Federal Com.		
	Stevens,	Inc. V					9. WELL NO.		
3. ADDRESS OF OP P. O. H		Roswell,	New Mexico	8820	JUL 2 1 tate requirements.*)	1981	6 10. FIELD AND FOOL,		
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At proposed p	rod. zone Same				en cara, a	21 F 152 E	Sec 23, T15S,	R27F	
and the second		ECTION FROM NEA	REST TOWN OR POS	T OFFICE			12. COUNTY OR PARISH	13. STATE	
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15. DISTANCE FRO LOCATION TO	NEAREST			1	. OF ACRES IN LEASE		F ACRES ASSIGNED HIS WELL		
(Also to nea	LEASE LINE, FT rest drig. unit 1	ine, if any)	6601		440		320		
18. DISTANCE FRO TO NEAREST	OM PROPOSED LO Well, drilling R, on this lease	COMPLETED,	Naza	1	OPOSED DEPTH	1 _	RY OR CABLE TOOLS		
21. ELEVATIONS (S			None				22. APPROX. DATE WO	DEK WILL START*	
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13-81	FOR					CSIN. U.S.	1981 ····		
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N IEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

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Form C+102 Superseden C+128 Effective 1+1-65

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	+ ENGINE	ER & LTT				Nome George	R. Smith
	Carl Street	on issue				Position Agent f	or:
	67 T					Company Read & Date	Stevens, Inc.
	ZEN M	ENIC A				July 2,	1981
Read & Steven	ns, Inc.	Read & NM 1662	Stevens,		660'	shown on notes of under my is true a	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same nd correct to the best of my and belief.
			1	ard 011 14131	Co.	Date Durvey Registered F and of cont	6-15-81
U 330 660 '90	1320 1650 1966 2310	2640 2000	1500	10-0 80 0		Çértificate t	A JOHN W. WEST 678 PATRICK A ROMERO 6668 Rongid J. Eidson 3235

ENERCY AND MINERALS DEPA IMENT

OIL CONSERVATION DIVISION

BRUCE KING

LARRY KEHOE SECRETARY July 13, 1981 RECEIVED

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

JUL 2 0 1981

O. C. D. ARTESIA, OFFICE

Read & Stevens, Inc. P. O. Box 1518 Roswell, New Mexico 88201

Attention: Bruce Stubbs

Administrative Order NSL-1385

Gentlemen:

Reference is made to your application for approval of a non-standard location for your Harris Federal Well No. 6 to be located 1650 feet from the South line and 660 feet from the East line of Section 23, Township 15 South, Range 27 East, NMPM, Buffalo Valley Pennsylvanian Gas, Chaves County, New Mexico.

By authority granted me under the provisions of Rule 3 of Order No. R-1670, the above-described unorthodox location is hereby approved.

Sincerely,

JOE D. RAMEY, Director

JDR/RLS/dr

cc: Oil Conservation Division - Artesia
Oil & Gas Engineering Committee - Hobbs
U. S. Geological Survey - Artesia

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APPLICATION FOR DRILLING

READ & STEVENS, INC. Harris Federal Well No. 6 660' FEL & 1650 FSL, Sec. 23, T15S, R27E Chaves County, New Mexico Lease No.: NM 16626 (Development Well)

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

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

Queen	1077'	Cisco	7352 '
San Andres	1673'	Canyon	7667 '
Glorieta	3228	Strawn	8163'
Tubb	4541'	Atoka	858 0'
Abo	5345	Chester	8850 '
Wolfcamp	65251	Total Depth	9100 '

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

Water: Approximately 200 - 400' for surface water.

Gas: Atoka at approximately 8700'.

Oil: San Andres at approximately 1680'.

- 4. Proposed Casing Program: See Form 9-331C.
- 5. Pressure Control Equipment: See Form 9-331C and Exhibit "D".
- 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: One possible in each of the following: Strawn 8163'-- 8263' Atoka 8580' - 8680' Logging: Gamma Ray Surface to T. D. FDC/CNL Int. Csg. to T. D. Dual Ind. 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: July 20, 1981. Anticipated completion of drilling operations: Approximately 35 days.

MULT TOINT SURFACE USE AND OPERATION

READ & STEVENS, INC. Harris Federal Well No. 6 660' FEL & 1650' FSL, Sec. 23, T15S, R27 Chaves County, New Mexico Lease No.: NM 16626 (Developemnt Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to discribe 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 as staked. The well is approximately 13 miles east of Lake Arthur, New Mexico. A portion of the 12 miles of existing access road is paved for nearly two miles with the remainder a well maintained gravel county road and one mile of new oil field access road.
- B. Directions: Travel south from Roswell on Alternate Highway 285 to Lake Arthur, New Mexico. Turn left (east) onto county road 507. There is an old white closed service station on the right side of the highway at the turnoff. Road 507 is paved for 1.5 miles then changes to a well maintained gravel road. Continue east on the gravel road .5 mile turning southeast for a mile crossing the Pecos River. Turn left (east) after crossing the bridge and a cattle guard traveling easterly for approximately 1.8 miles to a "Y" in the road. Take the right hand fork traveling easterly again for approximately 5 miles passing a fence corner post on the right. The road turns southeast at this point and passes "White Lake" on the right side of the road. The lake is dry at this time. Travel .6 mile past the fence corner post. A new access road to Harris Federal Well No. 4 and Harris Federal Com. Well No. 5 turns north from the county road at this point. Follow this access road 1.2 mile north/northeast to Harris Federal Com. Well No. 5. The proposed new access road will originate from the west side of the pad of Well No. 5.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The new access road will be 12 feet wide (20' ROW) and approximately 4,000 feet long, from the point of origin from the northwest corner of the Harris Federal Com. Well No. 5 drill pad to the southeast corner of the drilling pad. The new access road does not follow a straight line, but curves around the terrain. The new access road is labeled and color coded in red on Exhibit "A" and "B" and has been flagged by BLM.
- B. Construction: The new road will be constructed by grading and topping with compacted caliche. The surface will be properly drained.
- C. Turnouts: There will be at least three turnouts, which will increase the road width to 20 feet for passing.

Read & Stevens, Inc. Harris Federal Co Vell No. 6 Page 2

- 2. PLANNED ACCESS ROAD: cont.....
 - D. Culverts: None required.
 - E. Cuts and Fills: The will possibly be some cutting of the road about 2000 feet in as it comes up a rocky ridge.
 - F. Gates, Cattleguards: None required.
- 3. LOCATION OF EXISTING WELLS:
 - A. Existing wells within a one to two mile radius are shown on Exhibit "B" and "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. There are no production facilities on this portion of the 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 fresh and brine water. The water will be obtained from private or commercial sources and will be transported over the existing and proposed access roads.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
 - A. Caliche for surfacing the road and the well site pad will be obtained from an existing pit located on Federal surface and minerals located in the SE¹/₂ of Sec. 24, TI5S, R27E. The 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 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 materials 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.

Read & Stevens, Inc. Harris Federal Cc Well No. 6 Page 3

- 7. METHODS OF HANDLING WAST DISPOSAL: Cont.....
 - F. Current laws and regulations pertaining to the disposal of human waste will be complied with.

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- 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 dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
- B. Mat Size: 250' X 230'.
- C. Cut and Fill: The location will require a very slight cut on the north and fill to the south.
- D. The surface will 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 material not need 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 in 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 the top of a mesa, relatively flat with a 30-40 foot drop to the north/northwest on the north side of the location, from an elevation of 3625 feet.
 - B. Soil: The topsoil at the wellsite is an alkali clay underlain with limestone and with major outcrops to the west and east of the site. The original location 990' FEL was directly on top of the rock outcrop and too close to the edge of the hill.

Read & Stevens, Inc. Harris Federal Cor Vell No. 6 Page 4

- 11. OTHER INFORMATION: cont.....
 - C. Flora and Fauna: The vegetative cover consets of very sparse miscellaneous grasses, including Tobosa, Grama, Three-on, also mesquite, yucca, cactus and other miscellaneous desert flowers and weeds. The only wildlife observed were an occasional jackrabbit and cottontail rabbit, but it is likely that other typical semi-arid desert wildlife inhabit the area, which is used for cattle grazing.
 - D. Ponds and Streams: There are no rivers, streams, lakes or natural ponds in the area.
 - E. Residences and other Structures: There are no residences or other structures within a mile of the well site except Well No. 5 to the southeast 4,000 feet.
 - F. Land Use: Cattle grazing.
 - G. Surface Ownership: The proposed location is on Federal surface and minerals.
 - H. There is no evidence of any archaeological, historical or cultural sites in the are. An archaeological survey has been conducted by ACA Eastern New Mexico University, Station # 9, Portales, New Mexico 88130, and their report has been submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

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

Joe Handley	Dan Lough
P. O. Box 1135	830 W. Gore
Lovington, New Mexico 88260	Lovington, New Mexico 88260
Office Ph: (505) 396-5391	Office Ph: (505) 396-5391
Home Phone: " 396-5449	Home Phone: " 396-4371

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsity 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 Read & Stevens, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

July 6, 1981

George R. Smith Agent for: Read & Stevens, Inc.





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