	THE OTL CON	S. COMMISSION			
Form 9-331 C	Drawe: D	_	SUBMIT IN T	JCATE* Form approved. Budget Burcau No. 42-R1425.	
(May 1963)		88210 ED STATES	(Other instruct reverse sid	UDS OD	
		OF THE INTER	IOR	5. LEASE DESIGNATION AND SERIAL NU.	
		GICAL SURVEY		NM-068043	
C/SF	ON FOR PERMIT T		N OR PLUG B	6. IF INDIAN, ALLOTTEE OF THISE NAME	
·	IN FOR PERMIT			KELEN/SD	
1a. TYPE OF WORK D	RILL X	DEEPEN	PLUG BAC	K	
5. TYPE OF WELL	GAS .		NGLE X MULTIPL	E . FABM OR LEASE NAME OCT 28 1981	
WELL 2. NAME OF OPERATOR	WELL X OTHER	Z01		Harris Federal	
	Stevens, Inc. "			9. WELL NO. O. C. D.	
3. ADDRESS OF OPERATO				ARTESIA, OEFICE	
P. 0.	Box 1518 Roswe	1, New Mexico 8	8201 5 C 15 )(Y	Undesignated Diamond Mound	
St surface	(Report location clearly and			IL. SEC., T., B., M., OR BLK.	
	FNL and 1980' FEI		M nct 131	981 AND SURVEY OR AREA	
At proposed prod. Same	zone			- 0000 54, 1150 1414	
14. DISTANCE IN MILE	S AND DIRECTION FROM NEAR	REST TOWN OR POST OFFICE	OIL & G	AS 12. COUNTY OR PARISH 13. STATE	
Approx	imately 10 miles	east of Lake An	thurs Needlooic	ACKED OF ACRES ASSIGNED	
15. DISTANCE FROM PR LOCATION TO NEAR PROPERTY OR LEAS	EST	9801	2520	TO THIS WELL 320	
(Also to nearest ( 18, DISTANCE FROM P	irig, unit line, if any)		OPOSED DEPTH	20. ROTARY OR CABLE TOOLS	
TO NEAREST WELL OR APPLIED FOR, ON	, DRILLING, COMPLETED,	7,000'	9100'	Rotary	
	whether DF, RT, GR, etc.)			22. APPROX. DATE WORK WILL START*	
3482	GR		······	November 1, 1981	
23.	F	PROPOSED CASING AND	CEMENTING PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
17 1/2"	13 3/8"	54.7#	400'	400 Sx Class "C" Circulate	
11"	8 5/8"	24.0#	<u> </u>	500 Sx "H" + 200 Sx "C" Circulate 500 Sx Class "C"	
7 7/8"	4 1/2"	10.5, 11.6#	9100		
liud Program	<b>n:</b>			TC assesses in poted add	
0'	- 400' Spud m	ud with magcoba	r gel and lime.	If seepage is noted, add lation is lost, dry drill to	
		nd set surface			
400*	- 5,200' Fresh	water and nativ	e mud. Mud wt.	8.4#, Vis. 30-32, WL no control.	
5,200'	- 8,000' Magcog	el and oil type	drilling fluid	• Mud wt• 8•5# - 8•8#,	
	Vis. 3	0-32, 3-4% oil,	WL no control.	avatom with Magcogel and Magco	
8,000	- 9,100' Fresh	water, low soll $\frac{1}{2}$ where $9.0-9.5$	vis. 40-45. W	system with Magcogel and Magco TL 10 or below, PH. 9-9.5.	
	Circul	ate portion of	reserve pit whe	n mudding up at 8,000'.	
BOP Progra	m: At 1700', ins	tall and test t	o 3,000#, pipe	rams, blind rams (middle) bag-	
type preventer and choke manifold. BOP accumulator volume will be sufficient to operate the bag preventer and blind rams with a snap-action through the					
		e bag preventer en close sequenc		with a snap-action through the	
GAS NOT DET				a a a a a a a a a a a a a a a a a a a	
	THE PROPERTY DECORATE IS	proposal is to deepen or ally, give pertinent data	plug back, give data on p on subsurface locations a	resent productive zone and proposed new productive nd measured and true vertical depths. Give blowout	
preventer program. h					
24.	· 11	Ag	ent for:	no interne	
SIGNED	the spectra and a spect		au a scevens, s		
(This space for	Federal or State office use)			الملكرية	
DEDMIT NO	LODROVED	) <u> </u>	APPROVAL DATE		
PERMIT NO.				DATE PPL 7.0.3	
APPROVED BY		TITLE		DATE P1 D	
CONDITIONS OF AP	PROVAL OCT 2 7 1981			٦٢	
F	James A.G. Il	band			
	JAMES & CALLMAN	*See Instruction	s On Reverse Side		
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OIL CONS. CONTION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 8750

Form C-102 Revised 10-1-78

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Approximation         Learning	ENERGY AND MINI	ERALS ULI MAIMENT	All distances mi	unt he from	the outer boundertes of	the Section.		
Read & Stevens, Inc.       Harris Feotral         Win Letter       Section       34       Township         135       South       1980       test immits       East       Chaves         1980       Interference       Direction of string       East       Description       Description         1980       Interference       Direction of string       East       Description       Description         3480       Prediction of string       East       Description       Description       Description         3480       Prediction of string       East       Description       Description       Description         3480       Prediction of string       East       Description       Description       Description       Description         2. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated (by communitization, unitization, unitization, force-paoling, etc?       Description       Here consolidated (by communitization, unitization, force-paoling, etc?         19 west is "root," list the owners and tract descriptions which have notably been consolidated (by communitization, unitization, force-paoling, or anterwise) or unit a non-standard unit, eliminating such interests, has been approved by the Divisio forced-paoling, or anterwise) or unit a non-standard unit, eliminating such interests, has been approved by the Divisio forced-paoling, or anterwise) or unit a non-standard uni					• <b>a # •</b>			Well No. 147
Read 6       Stevens, Inc.	Operator				Harris Fede	eral		<u> </u>
Definition       South       27 East       Universe         1980       test from the South       North       1980       test from the South       South       230       Array         1980       test from the South       Pool for the Methods       Pool for the Methods       South       230       Array         3462       Theorem the Townstoon       Pool for the Methods       Pool for the Methods       South       Array         3462       Theorem the Townstoon       Pool for the Methods       Pool for the Methods       South       Array         3462       Theorem the Townstoon       Pool for the Methods       Pool for the Methods       Array         3462       It makes the accessing dedicated to the subject well, well well well wells have noreably the ownership thereof (both as to worthin interests and regulty).       If mere than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated (by communitization, unitization, force-pooling, etc?         If rece is 'no If meswer is ''rece'' type of consolidation	Read &		Townshite			County		
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3.482       . Actions         1. Outline the accenge dedicated to the subject well by colored pencil or hachure marks on the plat below.         2. If more than one leave is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royally).         3. If more than one leave of different awnurship is dedicated to the well, have the interests of all owners been consolidated by communitation, unitization, force-puoling, etc?		feet from the	HOI CH					
3.482       . Actions         1. Outline the accenge dedicated to the subject well by colored pencil or hachure marks on the plat below.         2. If more than one leave is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royally).         3. If more than one leave of different awnurship is dedicated to the well, have the interests of all owners been consolidated by communitation, unitization, force-puoling, etc?	Ground Level Elev.	1			Undesig. Diam	nond Mound		and the second
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<ul> <li>interest and toyAlly.</li> <li>3. If more than one lense of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?</li> <li>Yes No If nesser is "yes," type of consolidation</li></ul>	1. Outline th	e acreage dedica	dedicated to the	e well, o	outline each and ide	entify the ow	nership the	rcof (both as to working
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#### APPLICATION FOR DRILLING

READ & STEVENS, INC. Harris Federal, Well No. 7 1980' FNL & 1980' FEL, Sec. 34, T15S-R27E Chaves County, New Mexico Lease No.: NM-068043 (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 recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

7460'
80861
8500'
8790'
8898'
9100'

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

Water: Surface water at between 100' to 300'.

- 0il: San Andres at approximately 1500'.
- Gas: Atoka at approximately 8700'.
- 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 Ste	m Tests:	One possible Strawn Atoka	in each of the following: 8086' - 8186' 8650' - 8750'
Logging:	Gamma Ra FDC/CNL Dual Inc	•	Surface to T.D. Int. Csg. to T.D. 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: January 15, 1982. Anticipated completion of drilling operations: Approx. 35 days.

MULTI-F IT SURFACE USE AND OPERATIONS F

READ & STEVENS, INC. Harris Federal, Well No. 7 1980' FNL & 1980' FEL, Sec. 34, T15S-R27E Chaves County, New Mexico Lease No.: NM-068043 (Development Well)

This plan is submitted with the Application for Permit to Drillswhere 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 as staked. The well site location is approximately 10 miles east of Lake Arthur, New Mexico. A portion of the 10 miles is paved and the remainder is a county maintained gravel 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 service station on the right of the highway at the turnoff. The county road is paved for 1.5 miles, then is a maintained gravel road. Continue east past the pavement for .5 mile then turn southeast for a mile crossing the Pecos River bridge. Turn left (east) after crossing the bridge at the fork in the road and continue east for 1.5 miles taking the right fork in the road. Travel east for approximately 4 miles to the point of origin of the proposed new access road that is flagged on the fence on the right hand side (south) of the county road. The new access road will start at this point and travel south for approximately 2000 feet to the proposed location.

### 2. PLANNED ACCESS ROAD:

- A. Length and Width: The new access road will be 12 feet wide (20' ROW) and approximately 2,000 feet long, from the point of origin from the existing county road to the southeast 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 by grading and topping with compacted caliche. The surface will be properly drained.
- C. Turnouts: There will be one turnout at the midpoint of the road, which will increase the road the road width to 20 feet for passing.
- D. Culverts: None required.
- E. Cuts and Fills: None required.
- F. Gates, Cattleguards: One cattleguard will be required at the point of origin of the new access road where it leaves the county road and crosses the rancher's fence.

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- 3. LOCATION OF EXISTING WELLS:
  - A. Existing wells within a one-mile radius are shown on Exhibits "B" and "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
  - A. There are production facilities at other locations on this lease. The producing wells are shown on Exhibit "C".
  - 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 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 in the SE<sup>1</sup> of Sec. 24, T15S-R27E. The topsoil 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.
  - 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.

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S. ADCILIARY FACILITIES:

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L. None required.
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- 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 northeast and will be filled to the southwest 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 materials 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 aethetically pleasing a condition as possible.
  - B. Any unguarded pits containing fluids will be fenced until they are filled.
  - C. This location is on private surface and if the proposed well is non-productive and agreement has been made with the surface owner that all rehabilitation and/or vegetation requirements of the Bureau Land Management and the United States Geological Survey will be followed and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

## 11. CTHER INFORMATION:

- A. Topography: The land surface in the vicinity of the wellsite is gently sloping to the west/southwest from an elevation of 3482! at about two feet in six hundred feet.
- 3. Soil: The topsoil at the wellsite is a loamy clay underlain with an occasional outcrop of gypsum.
- C. Flora and Fauna: The vegetation consists of range grasses of Tabosa, Ring Muhly, Buffalo, Grama, along with Yucca, cacti, mesquite and snakeweed. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove, and quail.
- D. Ponds and Streams: There are no rivers, streams or lakes in the area. There is a natural drainage pond, White Lake, approximately 3500' northeast of the wellsite.

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- 11. OTHER INFORMATION: cont.....
  - E. Residences and other Structures: The Merritt ranch house and other buildings are located approximately 1200 feet southwest of the wellsite.
  - F. Land Use: Cattle grazing.
  - G. Surface Ownership: The proposed access road and well site is located on private surface and Federal minerals. An agreement has been made with the surface owner, Mr. Bill Merritt, P.O. Box 137, Lake Arthur, New Mexico, to compensate him monetarily for the surface damages and to rehabilitate and return the surface to its natural state in the event the well proves non-productive.
  - 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.

## 12. OPERATOR'S REPRESENTATIVE:

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

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

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 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.

October 13, 1981

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





Billings Blue Print Billings, Montana



# ., State New Mexico

Producing Gas Well 0 . Producing Oil Well EXHIBIT "C" Plugged & Abandoned Read & Stevens, Inc. Proposed Location 0 Existing Wells Harris Federal, Well No. 7







- F. ONE (1) BEANOT SINGLE TANDEM (OUAL SCREEN) SHALE SHALER
- 6. THEEE (3) MISSION MAGNUM 5"X 6" CENTRIFUGAL ANDRS POWERED BY 60 HP ELECTRIC MOTORS
- H. ONE (1) 500 BBL WATER TANK WITH 2 2"X 3" Mission MAGNUM CENTRIFUGAL PUMPS - POWERD DV 20 HP ELECTRIC MOTORS
- I. ONE (1) 500 BBL DIESEL TANK MITH 2 1"X 1"2" MISSION CENTRIFUGAL PUMPS POWERO BY IMP ELECTRIC MOTORS
- J. OWE (1) 6" Mission MUD HOPPER COMPLETE INITH MOUNTING BASE, VENTURI, NOZZEL, OUTTORFLY VALUE AND SACK TABLE

V. B.O. P. EQUIPMENT A. ONE (1) 11" SOOD #INP. SHAFFER ANNULAR B.O.P. B. ONE (1) 11" 5000 # W.P. SHAFFER THE "LWS" HYDRALIC OPERATED DOUDLE B.O.P. C. ONE (1) 5000 # W.P. CHOKE AND KILL MANIFOLD -SHAFFER EQUIPMENT FOR STANDARD SERVICE NOTE: ANNURA AND COURSE RAM B.O.P.'S HAS INTERNAL H25 TRIM D. ONE (1) 90-115 MELCO CLOSING LINIT - 90 GALLON COMPLETE WITH ACCUMULATOES AND REMOTE CONTROL UNITS

VL Deil Pipe