		ANA	UEA - No	ala T	1e			
Form 9-381 C	MMUCD - Jeanta Te SUBMIT IN TRIPLICAT				PLICATE			
(May 1963)			~	(Other instruct reverse sid		Budget B	ureau No. 42-R1425	·•
		TED STATES		reverse stu	le)		<u> </u>	
	DEPARTMEN	I OF THE I	NIERIUR			5. LEASE DESIGNA	TION AND SEBIAL NO.	_
	GEOLO	GICAL SURV	EY			NM-55810)	
APPLICATIO	N FOR PERMIT	to drill,	DEEPEN, C	OR PLUG BA	ACK	6. IF INDIAN, ALL NA	OTTLE OR TRIBE NAME	-
1a. TIPE OF WORK		DEEPEN	[]	PLUG BAC	r []	7. UNIT AGREEME	INT NAME	
b. TYPE OF WELL		DECREM		FLUG BAG				
-	AS VELL OTHER		SINGLE F	X MULTIPL ZONE		8. FARM OR LEAS	E NAME	_
2. NAME OF OPERATOR		ADTHO		and			is com	
	Resources, Inc.	H1- 30	5-037-2	20047		9. WELL NO.		
3. ADDRESS OF OPERATOR			n 11	m - 750	20	1		_
	30, 5310 Harves				30	10. FIBLD AND PO Wildcat	OL, OR WILDCAT	
A A gran for an	JL & 920' FNL,					11. SEC., T., R., M.	OR BLE	
		Sec. 25, 11	JN, KJ12,			AND SURVEY		
At proposed prod. zou Same	16					Sec. 25,	, T13N, R31E,	NMPM
+	AND DIBECTION FROM NEA	REST TOWN OR POS	T OFFICE*			12. COUNTY OR PA	RISH 13. STATE	
12 miles	Northeast of	Tucumcari,	New Mexic	0		Quay	NM	
15. DISTANCE FROM PROP LOCATION TO NEARES	T		16. NO. OF AC	BES IN LEASE	17. NO. 0 TO TH	F ACRES ASSIGNED	• • • • • • • • • • • • • • • • • • • •	
PROPERTY OR LEASE I (Also to nearest dr)	LINE, FT.	410'	160			160		
18. DISTANCE FROM PROI TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	NA	19. PROPOSED 3400'	DEPTH	20. ROTA	RY OB CABLE TOOLS Rotary		-
21. ELEVATIONS (Show wh							B WORK WILL START*	_
4088.5			5-23-85			_		
23.		PROPOSED CASH	NG AND CEME	INTING PROGRAM	M			
SIZE OF HOLE	SIZE OF CASING	WRIGHT PER F	OOT SE	TTING DEPTH		QUANTITY OF C	CEMENT	
12-1/4"	8-5/8"	24#	550-	9 550 88		550 sacks CIRCULATE		_
7-7/8''	5-1/2"	15.5#	3	400'		250 sacks		
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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

POSTUELL, NEW

PPROVED BY SIPhil Kirk	Approval date Area Manazat	to all kit
IGNED	NRE, Agents for Canyo	on Res. DATE May 21, 1985

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

		All distances must be	from the outer boundaries of	the Section	·····
rotov CANYON RE	SOURCES		Lease HARVEY U	SA	Well No. 1
		Township	Range	County	I
C	25	13 NORTH	31 EAST	QUAY	
al Footage Locatio 920		NORTH	1650	et from the WEST	line
and Level Elev.	eet from the Producing Form		Poel	in nom the	Dedicated Acreage;
4088.5		e Wash	Wildcat		160 Acre
	one lease is		vell by colored pencil o ll, outline each and ide		the plat below. thereof (both as to workir
dated by com T Yes [f answer is this form if no No allowable	munitization, u] No If an "no," list the o eccessary.) will be assigned	nitization, force-pool nswer is "yes," type owners and tract des d to the well until a	of consolidation <u>Con</u> criptions which have a Il interests have been	mmunitization P ctually been consol	idated. (l'se reverse side o ommunitization, unitizatior
forced-poolin sion.	g, or otherwise)	or until a non-standa	rd unit, eliminating su- i i	ch interests, has be	en approved by the Commis CERTIFICATION
I650 [°] -				toined best of yame	ay certify that the information co herein is true and complete to th f my knowledge and belief. e <u>T</u> Janica
				Easttan NRE, Cany Cany	T. Janica Agents for on Resources 22, 1985
				l hern shown notes under is tru	by certify that the well location on this plat was plotted from fire of actual surveys made by me my supervision, and that the sar e and correct to the best of m edge and belief.
	1			ا اس <u>سر م</u> رز	
				Register	veyed 21, 1985 ed Professional Engineer and Surveyor AMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



SURFACE USE AND OPERATIONS PLAN

FOR

Canyon Resources, Inc. Harvey/US #1 1650' FWL & 920' FNL Section 25, T-13-N, R-31-E Quay County, New Mexico

LOC	ATED	12 a:	ir miles Northeast of Tucumcari, New Mexico.
FED	ERAL LE	ASE I	NUMBER: NM-55810
LEA	SE ISSU	EDı	May 1, 1983
REC	ORD LES	SEE 1	M. J. Harvey Jr.
ACR	ES IN L	EASE	2 80
SUR	FACE OW	NER 1	Ralph Bell Route 4 Box 42 Tucumcari, NM 88401
<u>P00</u>	LI NA-	Wild	cat
P00	IL RULES	ı S	tatewide 160 acre spacing for gas
EXH	IBITS	Α.	Road Map
		в.	Plat Showing Existing Wells and Existing Roads
		с.	Surface Facility Arrangement
		D.	Drilling Rig Layout
		Ε.	Topo Plat
		F.	Archaeological Clearance Report (7'o Follow)
		G.	Blow-Out Preventer



- I. Existing Roads:
 - A. Exhibit "A" is a map showing existing roads in the area of the proposed location.
 - B. Exhibit "B" is a portion of an ownership map ... showing the location of the proposed well as staked. Proposed location is approximately 12 miles Northeast of Tucumcari, New Mexico.
 - C. Any repair to existing roads does not appear necessary at the present time.

II. Access Roads:

- A. <u>Length and Width</u>: The new road will be 15 feet wide and approximately 200 feet long, and is shown on Exhibit "E". The center line of the proposed new road is staked and flagged.
- B. <u>Surfacing Material</u>: Caliche or gravel. Watered, compacted and graded.
- C. Maximum Grade: Less than one percent.
- D. <u>Turnouts</u>: None required.
- E. <u>Drainage Design</u>: The new road will be crowned with drainage to both sides.
- F. <u>Culverts</u>: None necessary.
- G. Cuts and Fills: None necessary.
- H. Gates and Cattle Guards: None necessary.

III. Location of Existing Wells:

A. Existing wells in the area are shown on Exhibit "B". All wells in this area have previously been plugged and abandoned.



IV. Location of Existing And/Or Proposed Facilities:

- A. Necessary production facilities will be located on the well pad.
- B. Proposed arrangement of tank battery and surface equipment is shown on Exhibit "C".
- V. Location and Type of Water Supply:
 - A. Surface water in the immediate area is located approximately 1/2 mile North and East (The Canadian River).
 - B. All water in drilling operations will be trucked to the drill site from commercial sources.
- VI. Source of Construction Materials:
 - A. Construction materials, if used, will be caliche and/or gravel, which will be purchased by dirt contractors from a commercial pit in the area.

VII. Methods for Handling Waste Disposal:

- A. Drill cuttings will be disposed 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 tests will be disposed of in the drilling pits.
- D. Oil produced during tests will be stored in test tanks until sold.



- E. 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. Location of the trash ... pit is shown on Exhibit "D".
- F. All trash and debris will be buried or removed from the well site within 30 days after completion of drilling and/or completion operations.

VIII. <u>Auxiliary Facilities</u>:

- A. None anticipated.
- IX. Well Site Lavout:
 - A. Exhibit "D" shows the relative location and dimensions of the well pad, mud pits, reserve pit, and trash pit, and the location of major rig components.
 - B. No cut and fill will be necessary, however clearing and levelling of the well site will be required.
 - C. The well site area is staked and flagged.
 - X. Plans for Restoration of the Surface:
 - A. After completion of the well, pits will be filled and the location cleaned of all trash and junk to leave the well site in good condition.
 - B. Any unguarded pits containing fluids will be fenced off until they are filled.
 - C. The reserve pits will be backfilled and leveled and the surface returned to its original contour.



XI. Other Information:

- A. <u>Topography</u>: The proposed location will be situated on an irregular landform whose surface is broken-by the irregular occurrence of low hemmocks. Immediately to the North is a drop off of approximately 200' into the Canadian River bottom. Areal drainage is to the North and East into the river bottom.
- B. <u>Soil</u>: See Archaeological Clearance Report
- C. Vegetation: See Archaeological Clearance Report
- D. Fauna: See Archaeological Clearance Report
- E. <u>Ponds and Streams</u>: The nearest surface water is the Canadian River which is approximately 1/2 mile to the North and East of the proposed location.
- F. <u>Residences and Other Structures</u>: There is one dwelling approximately 300' to the Northwest. This house is currently under construction but will be occupied by the surface owner in the near future.
- G. <u>Surface Usage</u>: The surface of the land is being utilized to a limited extent as grazing land.
- H. <u>Ownership</u>: The surface is privately owned.
- I. <u>Cultural Resources</u>: See Archaeological Clearance Report



XII. Operator's Representative:

The representative responsible for assuring compliance with the approved Surface Use and Operations Plan is:

Canyon Resources Suite 180 5310 Harvest Hill Road Dallas, TX 75230 Office: 214-239-0158

XIII. <u>Certification</u>

I hereby certify that I, or persons under my direct supervision; have inspected the proposed drill site 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 Canyon Resources and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Joe Jamíca

NRE, Ind. Agents for: Canyon Resources

<u>Mav 21, 1985</u> Date



SUPPLEMENTAL DRILLING DATA

CANYON RESOURCES HARVEY/US ±1 1650'FWL & 920'FNL S25-T13N-R31E

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Base of Santa Rosa	943'
Top of San Andres	1185'
Top Yeso	2604'
Top Granite Wash	3098'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Granite Wash 3098'- 3400'

4. PROPOSED CASING AND CEMENTING PROGRAM:

	SETTIN	<u>S DEPTH</u>			
CASING SIZE	FROM	<u> </u>	<u>WEIGHT</u>	GRADE	<u>JOINT</u>
8-5/8**	0	550'	24#	J-55	STC
5-1/2"	0	3400'	15.5#	J-55	STC

8-5/8" will be cemented with approximately 550 sacks of Class "C". Cement to circulate to surface.

5-1/2" will be cemented with 250 sacks of Class "C". Cement to cover the Penn.

5. PRESSURE CONTROL EQUIPMENT:

A 3000 psi working pressure, double ram type preventer will be in use while drilling below the surface casing.



6. CIRCULATING MEDIUM:

Surface to 550 feet: Fresh water with lime or gel as needed for viscosity control.

550 feet to Total Depth: Brine conditioned as necessary for control of viscosity, pH, and water-loss. Weighted as necessary for well control. ...

7. AUXILIARY EQUIPMENT:

Drill string safety values will be maintained on the rig floor while drilling operations are in progress.

8. TESTING, LOGGING AND CORING PROGRAMS:

Two drill stem tests are planned. These tests will be made in the granite wash (3098'-3400'). The exact depth will be determined when samples, drilling time, and other data indicate a test is warranted.

The proposed suite of electric logs is as follows:

GR-DNL-Caliper Litho Density Log Dual Latero Log-Micro Latero Log

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES, OR HYDROGEN SULFIDE GAS:

No abnormal pressures or temperatures are anticipated. No excessive concentrations of H2S is anticipated.

10. ANTICIPATED STARTING DATE:

It is planned that work will commence upon approval of this application with drilling and completion operations lasting about 20 days.







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All Dimensions in Feet

EXHIBIT "C" Surface Facility Arrangement Canyon Resources Inc. Harvey/US #1 1650'FWL & 920'FNL S25-T13N-R31E





EXHIBIT "D" Drilling Rig Lay Out Canyon Resources Inc. Harvey/US #1 1650'FWL & 920'FNL S25-T13N-R31E





BLOW OUT PREVENTER

Attachment G Canyon Resources, Inc. Harvey/US #1 Blow-Out Preventer

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