Form 3160-3 (November 1983)

SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 1004-0136

(formerly 9-331C)		HIED SIAIES Na of the inte	DIAD	iue)	Expires Augus	st 31, 1985
		NT OF THE INTE		ĺ	5. LEASE DESIGNATIO	N AND SERIAL NO.
BUREAU OF LAND MANAGEMENT				NM-58735		
	N FOR PERMIT	TO DRILL, DEEP	EN, OR PLUGIE	KACK	6. IF INDIAN, ALLOTT	LE OR TRIBE NAME
1a. TYPE OF WORK b. TYPE OF WELL	RILL X	DEEPEN 🗆	PLUG BA	· 1	7. UNIT AGREEMENT	NAME
OIL X	GAS WELL OTHER	FARMING TON, NEW MEXICO			8. FARM OR LEASE NAME	
2. NAME OF OPERATOR Merrion Oil & Gas Corp.				Galestina 9. WELL NO.	Canyon	
3. ADDRESS OF OPERATO					1	
		, Farmington, New			10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (At surface		ind in accordance with any	State requirements.*)		Wildcat	
	330' FSL and	2264' FWL			AND SURVEY OR	ł BLK. Area
At proposed prod. 2	API #	30-006-2	20008		N _{Sec. 27, T}	
					12. COUNTY OR PARIS	- 1
16 miles 15. DISTANCE FROM PRO		E Lake, New Mexic	o, on Highway 3.		Cibola FACRES ASSIGNED	New Mexico
LOCATION TO NEARE PROPERTY OR LEASE	ST	330'	8,747.24		is well	0
18. DISTANCE FROM PRO		19. Р	ROPOSED DEPTH	20. ROTAR	Y OR CABLE TOOLS	
OR APPLIED FOR, ON T	HIS LEASE, FT.	N/A	3005'	Rota	ary	
21. ELEVATIONS (Show w	hether DF, RT, GR, etc.)		7,194' GR		October,	YORK WILL START*
23.		PROPOSED CASING AN	D CEMENTING PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEM	ENT
12-1/4"	9-5/8"	32.3 or 36	375'		1.75 sx	
8-3/4"	4-1/2"	10.5	3,005'	-	350_sx	
J-55 cas on cemen to TD at open holo production gel. Es	ing at 375' KE t 10 hours. F 3,005'. If de logs. If wellon casing at 3 stimated top	Additional dyi	7 cu.ft.) Class ing to 1200 psi. will run drill s tive will set 4- sx (427 cu.ft.) L. Will perfor lling program de	'B', 29 Dril stem tes -1/2" J- class cate and	CaCl2. Waits CaCl2. Waits Sts. Will runce Common Common Carlo Carl	t e n t %
"Approvel of			- Cement to surte	ce	roe! W	EM
not warrant				(<u>j</u>	EUEL	
holdologal		•		II.	ncT 13198	17
one. If proposal is to reventer program, if a	E PROPOSED PROGRAM: I drill or deepen direction	f proposal is to deepen or ponally, give pertinent data o	plug back, give data on pr on subsurface locations an	resent produ	DIST.	be new productive ths. Give blowout
SIGNED SIGNED	Sh	TITLE OF	perations Manage	r	DATE9/	/22/87
(This space for Federal or State office use)					A DODANCO	
PERMIT NO.			APPROVAL DATE		AS AM	ENDED
APPROVED BY	VAL, IF ANY :	TITUE		 	DATE	3 1007

NMOCC

*See Instructions On Reverse Side

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.

Operator			Lease	Well No.			
MERRION OIL & GAS CORP. Unit Letter Section Township			GALESTINA CA		1 1		
N N	Section 27	Township 8 N	Romg• 18 W	Cibola			
Actual Footage Loc	gtion of Well:	· k					
330	feet from the	South line and		t from the West	line		
Ground Level Elev: 7194	Producing For	N/A	P∞1 Wildcat	Dec	dicated Acreager 40 Acres		
1. Outline th	e acreage dedica	ated to the subject w	ell by colored pencil	or hachure marks on the	plat below.		
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).							
		different ownership is unitization, force-pooli		, have the interests of a	ll owners been consoli-		
	☐ No If a	nswer is "yes;" type o	of consolidation				
If answer	is "no," list the	owners and tract desc	criptions which have a	ictually been consolidate	ed. (Use reverse side of		
this form i	f necessary.)		· · · · · · · · · · · · · · · · · · ·				
No allowat forced-poo	ole will be assign ling, or otherwise	ied to the well until al) or until a non-standar	l interests have been d unit, eliminating su	consolidated (by commuch interests, has been a	unitization, unitization,		
sion.			0				
					CERTIFICATION		
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			1	best of my k	nowledge and belief.		
	45		1	Atu	Sh		
	- 성일 - 14.5		1	1 1/2	vén S. Dunn		
			+	Position	ons Manager		
	192 145		1		Oil & Gas Corp.		
7 5			1	Company 9/22/87			
	5		1	Date			
	i Se	EC.	1				
	1		1				
	1		1	I hereby ce	rtify that the well location		
	1	27	! 	1 1	s plat was plotted from field		
	1		1	under my sur	ual surveys made by me or pervision, and that the same		
	i			Is true and	correct to the best of my		
	1		m res	knowledge or	nd belief.		
	+		1730-4	3/301	<u>0-70-07</u>		
	Ī			Date Surveyed			
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2	264'		1	1/2/5	X2//18//		
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MERRION OIL & GAS CORPORATION

DRILLING TECHNICAL PROGRAM

ATTACHMENT TO FORM 3160-3

Galestina Canyon No. 1 330' FSL and 2264' FWL Sec. 27, T8N, R18W Cibola County, New Mexico

1. ESTIMATED FORMATION TOPS

FORMATION	DEPTH		
Top Mancos	Surface		
Top Dakota	50 ft.		
Top Morrison	300 ft.		
Top Shinarump	860 ft.		
Top San Andres	1,860 ft.		
Top Glorietta	2,070 ft.		
Top Yeso	2,250 ft.		
Top Pre-Cambrian	3,000 ft.		
Total Depth	3,005 ft.		

2. WELL CONTROL SYSTEM

- A. Proposed blowout preventer system (schematic drawings attached) is double ram BOPs with choke manifold.
- B. Minimum required working pressure rating for BOP stack is 2000 psi.
- C. BOP pressure testing will be conducted at time of installation and prior to drillout of surface casing shoe. The pipe and blindrams will be activated at minimum on each trip for a bit and recorded in driller's log.

3. DRILLING MUD PROGRAM

- A. Surface hole will be drilled with fresh water gel system, lime added to provide viscosity as needed.
- B. 8-3/4" hole will be drilled with a low solids, non-dispersed mud using fresh water, gel, and other products to control PH, viscosity, weight, and water loss characteristics as necessary. Cottonseed hulls and cedar fiber will be stocked on location for use in restoring lost circulation.
- C. Mud trip monitoring will be done visually.

4. HAZARDS

- A. No abnormal pressure is anticipated. However, BOPs will be used under surface casing to total depth.
- B. No hole problems are anticipated based on the previously drilled well in this area.
- C. No H2S is expected to be encountered. However, should H2S be found during drilling, detection and warning equipment will be installed.
- D. Hole deviation is not expected to be a problem. Single shot surveys giving hole inclination will be run a minimum of every 500 feet.

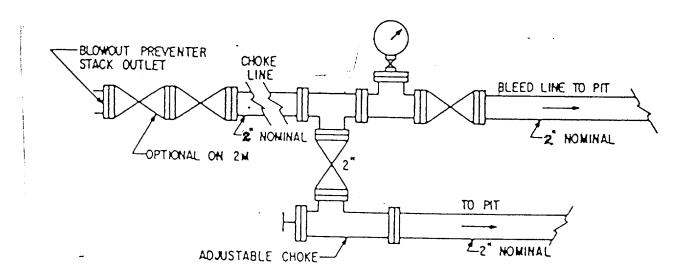
5. LOGGING AND TESTING

- A. An IES Induction Log will be run from TD to surface. A Compensated Density Log will be run a minimum of 2000' to cover zones of interest.
- B. Drill stem tests will possibly be run if drilling sample or mud shows warrant.

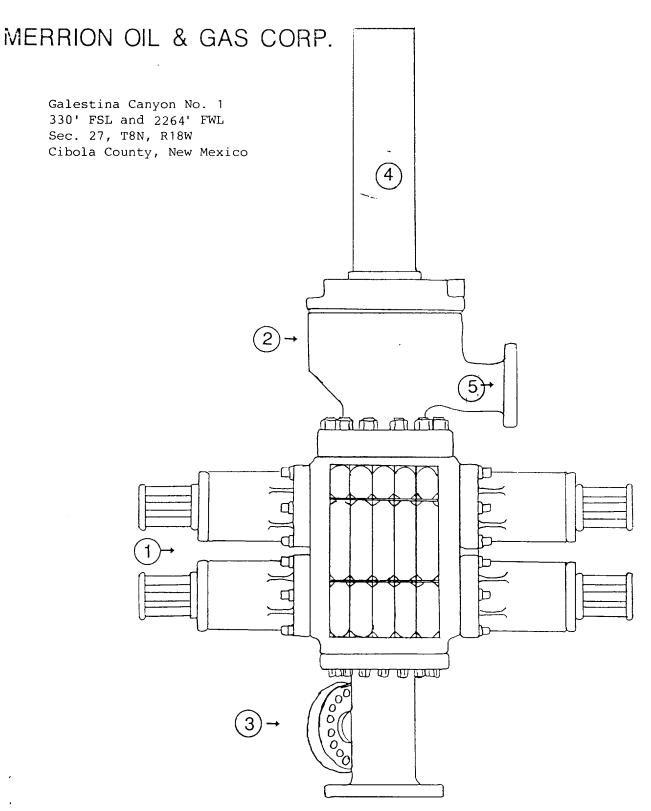
MERRION OIL & GAS CORPORATION

CHOKE MANIFOLD SCHEMATIC

Galestina Canyon No. 1 330' FSL and 2264' FWL Sec. 27, T8N, R18W Cibola County, New Mexico



FOR 2,000 and 3,000 PSI RATED WORKING PRESSURE



- 10' 3000# MANUAL LOCK RAM DOUBLE GATE BLOWOUT PREVENTER
- 2 10 3000 # ROTATING HEAD
- 3 SPOOL
- 4 FLOW NIPPLE
- 5 MUD RETURN LINE

BLM Surface Stipulations

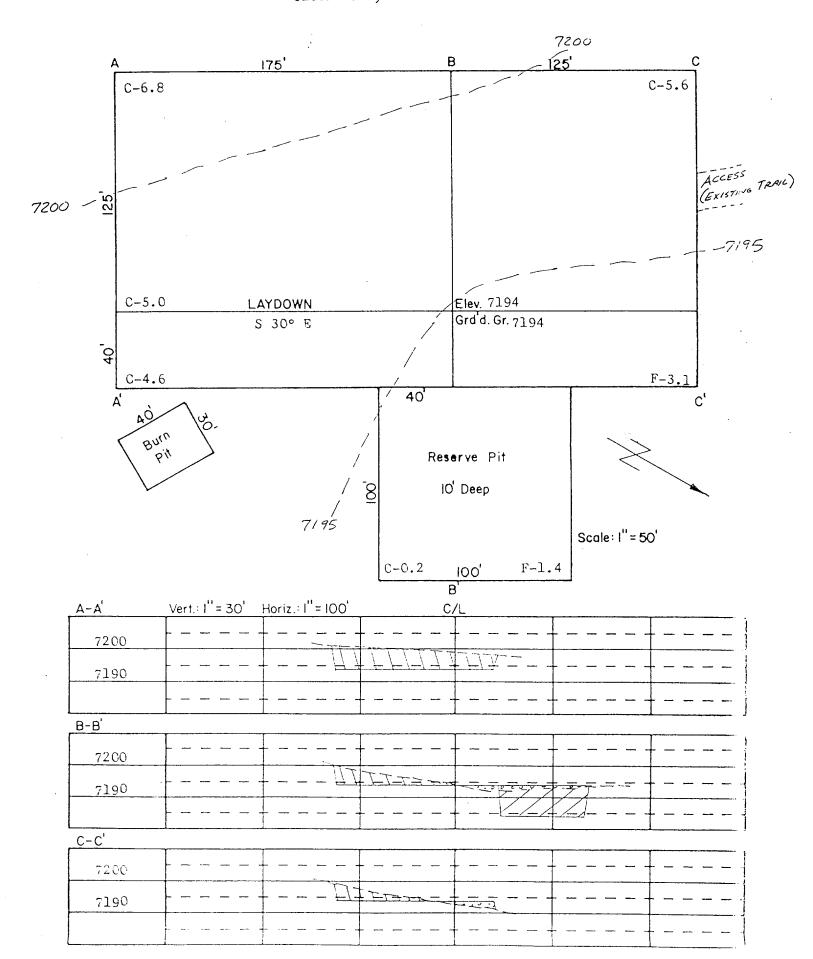
Operator: MERKION OIL & GAS CORP.	Well Name: #1 GALESTINA CANYON
Legal Location: 330 FSL 2264 FWL	sec. 27 T. 8N R. 18W NMPM
Lease Number: NM - 58735	Field Inspection Date: 9/21/87
1. The operator or his contractor will conta Office, Fluids Surface Management Staff, at (505) prior to construction activities.	act the BLM Farmington Resource Area 325-4572, approximately 48 hours
2. No construction or drilling activities shand March 31 because of elk/deer/bald eagle winter life biologist (Dave Renwald) at 325-3581, with an	habitat areas. Contact BIM wild-
3. The Fluids Surface Management Staff shall prior to moving on drilling rig. (505) 325-4572.	be notified upon site completion,
4. A (ft.) tree screen will be left on	the sides of the location.
5. Pits and/or pad will be constructed long contour of terrain, so as to avoid the edge of haz failure.	and narrow, or to conform to natural ard by an amount that prevents pit
6. Pits will be lined with an impervious mat	erial.
7. Earthen berm(s) will be placed on the the reserve pit and the wash.	side(s) of the location between
8. The corner of the well pad will be	rounded off to avoid
9. The wash shall be diverted around the	side of the well pad.
\times 10. Diversion ditch(es) will be constructed or above/helow (circle one) the cut slope, draining to	the State of the location the North
ll. A culvert of sufficient size will be place road.	ed where the drainage crosses access
X 12. The proposed access road shall utilize the approximately 1 (ft. or mi) as agreed upon dured planned access road will follow flagged route.	upgraded 2-track trail ing on-site inspection. Remainder
13. The access road shall be rerouted around to during construction and drilling activities for saferilling and cleanup, the road will be returned to	ety reasons. Upon completion of
\times 14. The cut slope shall not exceed a 4:1, $3:1$, aulthing or netting is _ \times is not required on	2:1, or 1:1 ratio (circle). Hydro the slopes.
15. Paint color Jungas seed mix #1.	
16. Woven wire shall be required on all pits (See Standard Stipulation I.E.).

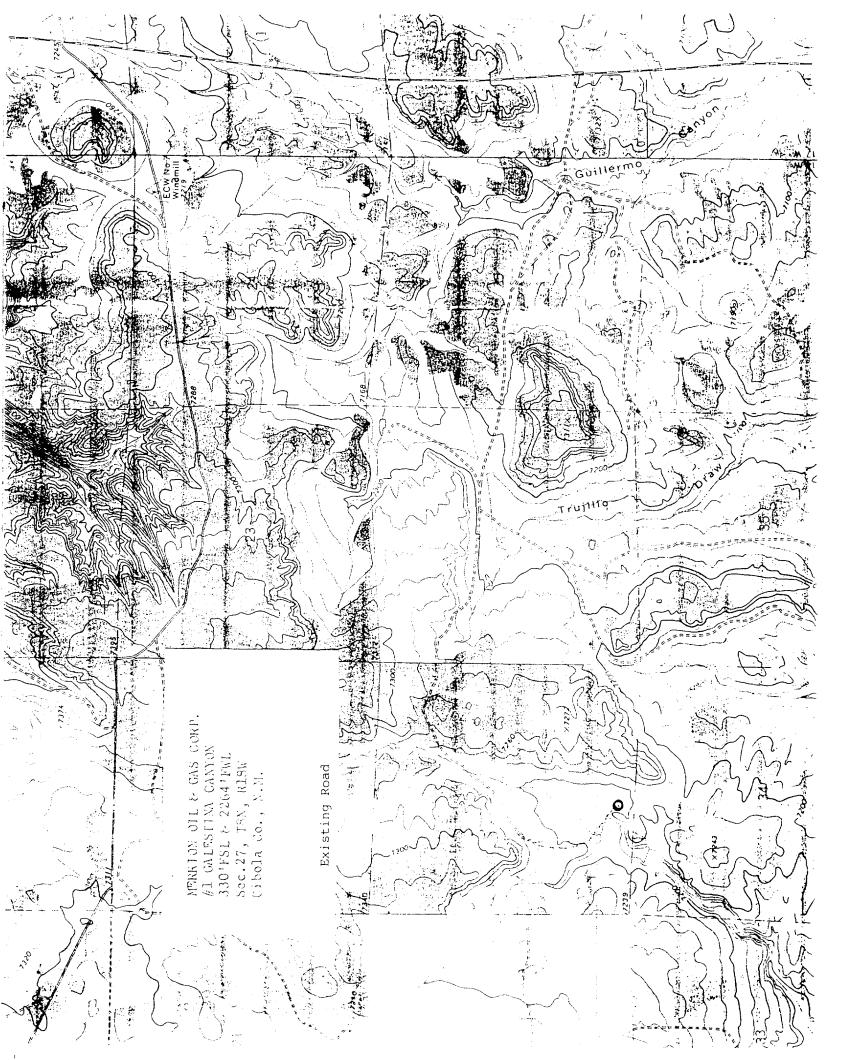
- 17. No hardwood tree with a diameter of ten inches or more at the base or any Ponderosa pine, Douglas-fir or aspen tree is to be removed or damaged without approval from the Authorized Officer.
- 18. Due to an active raptor nest no drilling or construction activities shall be conducted between March 1 and June 30. Contact BLM Wildlife Biologist at 325-3581, with any questions.
- 19. No surface disturbance shall occur until a paleontological resource investigation has been conducted by a BLM paleontologist or a professional paleontologist acceptable to BLM. The results of this investigation will dictate site specific stipulations for avoidance or salvage of any potentially significant paleontological resources.

× 20.	SE LAYDOWN					
		·				
Operator	's Representative					
Bureau o	f Land Management Re	presentative	Brian A.	Sland		
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Note: If the land is privately owned, these requirements may be varied to comply with the operator - landowner agreement.

MERRION OIL & GAS CORP. #1 GALESTINA CANYON 330 FSL & 2264 FWL Sec.27, T8N, R18W Cibola Co., N.M.





4. Location of Existing and/or Proposed Facilities

- A. Within a one mile radius of location, the following existing facilities are owned or controlled by lessee/operator:
 - (1). Tank Batteries:
 - (2). Production Facilities: None
 - (3). Oil Gathering Lines: None
 - (4). Gas Gathering Lines: None
 - (5). Injection Lines: None
 - (6). Disposal Lines: None
- B. If production is obtained, new facilities will be as follows:
 - (1). All production facilities will be located on the well location.
 - (2). All well flow lines will be on the well site.
 - (3). Drill pad size will be approximately 250 ft. long and 150 ft. wide.
 - (4). No construction materials for battery site and pad will be necessary.
 - (5). Any necessary pits will be fenced on three sides during drilling and the fourth side upon completion.
 - (6). Rehabilitation whether well is productive or dry, will be made on all unused areas in accordance with BLM or appropriate agency recommendations.

5. Location and Type of Water Source

- A. The source of water will be water well in Section 28.
- B. Water will be transported by truck over existing roadways.
- C. No water well is to be drilled on this lease.

6. Construction Materials

- A. No construction materials are needed for drilling and access roads into the drilling location. The existing surface materials will be sufficient and will be provided by the Dirt Contractor as needed.
- B. No construction materials will be taken off Federal or Indian lands.

- C. No surface materials for construction of access roads are required.
- D. All major access roads presently exist as shown on topographic map.

7. Handling of Waste Materials and Disposal

- A. Drill cuttings will be placed in the reserve pit and covered, when appropriate.
- B. Drilling fluids will be disposed of in the reserve pit.
- C. Any fluids recovered during drilling tests or while making production tests will be collected in a test tank if possible. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any excessive spills of oil, gas, salt waters or other noxious fluids will be cleaned up and removed.
- D. Latrine facilities will be provided for human waste.
- E. Garbage and non-flammable waste and salts and other chemicals produced during drilling or testing will be handled in trash pit. Flammable waste will be disposed of in burn pit if necessary. Drill fluids, water, drilling mud and tailings will be kept in reserve pit. Reserve pit will be fenced on three sides and the fourth side fenced upon removal of rig.
- F. After the rig moves out, location will be cleaned up and no dangerous materials will be left on location. Reserve pit will be fenced on three sides during drilling and after drilling completely fenced until such time as the pit is buried.

8. Ancillary Facilities

A. No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

A. Drill pad layout attached.

The drill pad layout is a diagram of the proposed rig and equipment reserve pit, burn and trash pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be a small trailer on site.

B. The reserve pits will not be lined. Steel mud tanks may be used during drilling operations.

10. Plans for Restoration

A. Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils material will be fenced, buried, or hauled away as soon as practical after drilling and completion work is finished. If production is obtained, the unused area will be restored as soon as possible.

- B. Any banked soil material, if removal required, will be spread over the area. Revegetation will be accomplished by planting seed mix as per surface managing agencies requirements.
- C. Three sides of the reserve pit will be fenced during drilling operations. As soon as practical after drilling the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped; and the fencing will be maintained until burying and cleanup is accomplished.
- D. The rehabilitation operations will begin as soon as practical after the drilling rig is removed. Cleanup will be done as needed. Planting and revegetation is normally required to be done from July 15 to September 15, unless requested otherwise.

11. Other Information

A. Soil - Sandy/Loam.

Vegetation - Sagebrush, Juniper, Pinon, and Grasses.

- B. The primary surface use is for grazing. The surface is owned by the Bureau of Land Management.
- C. The closest live water is: The closest occupied dwellings: There are no known archaeological, historical, or cultural artifacts that will be disturbed by this drilling.
- D. Restrictions: None. Operator has all rights.
- E. Drilling is planned for on or about October, 1987. Drilling operations should be completed within 16 days.

12. Lessee's or Operator's Representative

Steven S. Dunn, Operations Manager
Merrion Oil & Gas Corporation
P. O. Box 840
Farmington, New Mexico 87499
Telephone: (505) 327-9801

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

SEP 22,1987
Date

Steven S. Dunn, Operations Manager Merrion Oil & Gas Corporation