SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

approved Bureau	42-R1425.

UNITE	ED S	STATI	ES	
DEPARTMENT	OF	THE	INTERI	OR

30-045-22634 5. LEASE DESIGNATION AND SERIAL NO. **GEOLOGICAL SURVEY** NM-036252
6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK U.S. 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DEEPEN PLUG BACK DRILL 🖾 b. TYPE OF WELL MULTIPLE ZONE SINGLE GAS WELL S. FARM OR LEASE NAME WELL X Or OTHER 2. NAME OF OPERATOR Delo 9. WELL NO. W. M. GALLAWAY 12 10. FIELD AND POOL, OR WILDCAT 3. ADDRESS OF OPERATOR 101-2 Petroleum Plaza Bldg., Farmington, N.M.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Bisti Gallup 11. SEC., T., R., M., OR BLK AND SURVEY OR AREA 2222' FSL and 1562' FWL Sec. 26, T25N, R11W At proposed prod. zone Same 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* San Juan N.M. Approximately 10 miles West of Huerfano 15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 17. NO. OF ACRES ASSIGNED 16. NO. OF ACRES IN LEASE TO THIS WELL 1850 320 20. ROTARY OR CABLE TOOLS 19. PROPOSED DEPTH 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 22201 5150 Rotary
22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6720' GR As soon as possible. 23. PROPOSED CASING AND CEMENTING PROGRAM QUANTITY OF CEMENT SETTING DEPTH WEIGHT PER FOOT SIZE OF HOLE SIZE OF CASING 8 5/8" 200 100 Sacks 12 1/4* 28 # 7 7/8" 4 1/2" <u> 10.5#</u> 5150' 300 Sacks

Plan to mud drill through Gallup Formation and production casing through zone, perforate casing, stimulate well by fracing, run tubing and test well.

Blowout preventer diagram attached.

Gas is dedicated.

JUL 13 1977 OIL CON. COM. DIST. 3

IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM zone. If proposal is to drill or deepen dir preventer program, if any. 24.	M: If proposal is to deepen or plug back, give data on present ectionally, give pertinent data on subsurface locations and n	nt productive zone and proposed new productive neasured and true vertical depths. Give blowou
SIGNED MARKET	Operator Operator	DATE 7-1-77
(This space for Federal or State office	use)	
PERMIT NO.	APPROVAL DATE	HECEIVED
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	JÜL I 1 1977
Oleaf	*See Instructions On Reverse Side	U. S. GEOLOGICAL SURVEY

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

A plat, or plats, separate or on this reverse side, show-Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse sld ing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone. Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

U.S. GOVERNMENT PRINTING OFFICE: 1963--O-711-396

839-171

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

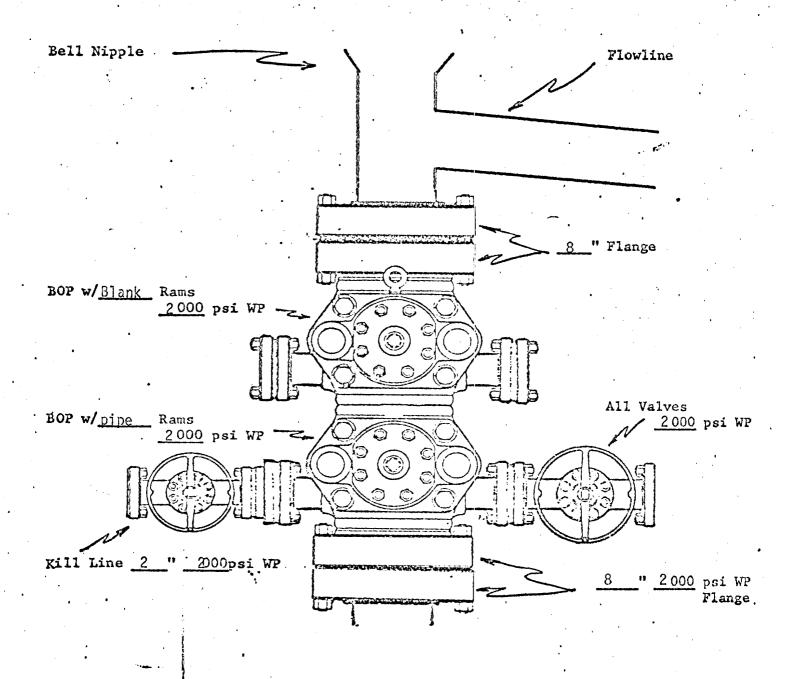
All distances must be from the outer boundaries of the Section Well No. Lease Operator 12 DELO W. M. GALLAWAY Ranae Section Township Unit Letter SAN JUAN 11 WEST 25 NORTH 26 K Actual Footage Location of Well: 1562 WEST feet from the line SOUTH line and 2222 feet from the Dedicated Avereage: Pool Producing Formation Ground Level Elev. BISTI Acres 6760 GALLUP 1. Outline the acerage dedicated to the subject well 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), 3. If more 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 answer is "yes," type of consolidation) Yes () No If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forcedpooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. W. M. Gallaway Position Operator Company W. M. Gallaway 26 I hereby certify that the well location sho his plat was plotted from field notes N surveys made by me or singler my that the same is true and correct knowledge and belief. 21 June Registered Professional Enginee James P. Leese and/or Land Surveyor

SAN JUAN ENGINEERING COMPANY,

SCALE-4 INCHES EQUALS 1 MILE

FARMINGTON, N. M.

1463 Certificate No.



W. M. GALLAWAY
Delo #12
NE/4, SW/4, Sec. 26,
T25N, R11W,
San Juan County, New Mexico

1991 AREA 115' CLEAR & LEVE 290'

W. M. GALLAWAY
Delo #12
NE/4, SW/4, Sec. 26,
T25N, R11W,
San Juan County, New Mexico
Scale: l" = 40'

W. M. GALLAWAY 101-2 Petroleum Plaza Building Farmington, New Mexico 87401

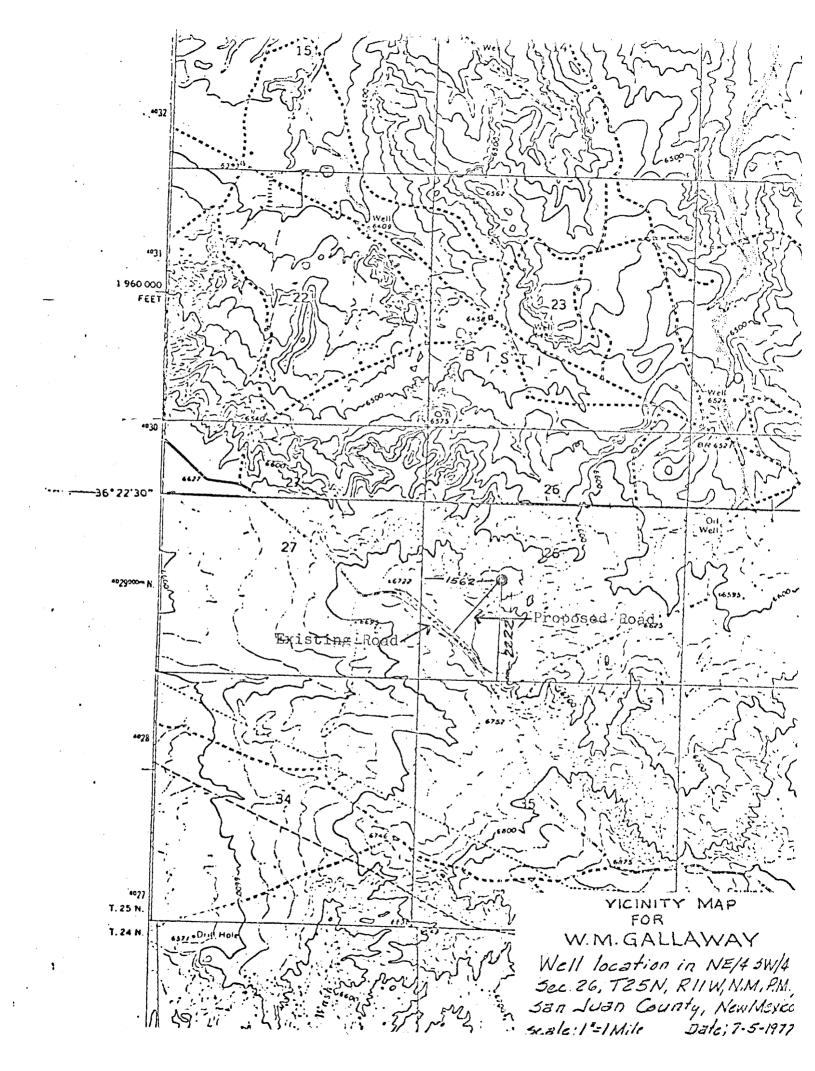
MULTI-POINT SURFACE USE PLAN FOR DRILLING OPERATIONS ON FEDERAL LEASES

Lea	se Name Delo Well No. 12
Well	Location 2222' FSL, 1562' FWL, Sec. 26, T25N, R11W
Fiel	Ld Bisti Gallup
Cour	nty San Juan State New Mexico
	Existing roads including location of the exit from main highway.
2.*	Planned access roads.
3•*	Location of wells.
4.*	Lateral roads to well location.
5• 6•	Location of tank batteries and flow lines. If needed will be 100' from well painted brown, #595-30318. Location and types of water supply:
	Water will be trucked to well site.
. 7.	Methods for handling waste disposal: Waste will be burned or buried.
8.	Location of camps: None
9•	Location of air strips: None
10.	Location layout to include position of rig, mud tanks, reserve pits burn pits, pipe racks, etc: See attached diagram of proposed layout.
11.	Plans for restoration of the surface: Pits will be backfilled and leveled to original grade. Location will be seeded according to B.L.M. seeding requirements.
	Any other information that may be used in evaluating the impact on environment: Location falls on top of bluff with very little
,	vegetation. Road to location is across sage brush flat. Grade in road will require one water bar.
•	* Shown on attached map.
	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 plane

posed 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 W. M. Gallaway and his contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

7-11-77

W. M. Gallaway, Operator



W. M. GALLAWAY

INVESTMENTS

101.2 PETROLEUM PLAZA BLDG. FARMINGTON, NEW MEXICO 87401 505.325.6771

September 28, 1977

New Mexico Oil Conservation Commission 1000 Rio Brazos Road Aztec, New Mexico 87410

Re: Delo #12, Bisti Gallup W/2, Sec. 26, T25N, R1LW, San Juan County, New Mexico

Gentlemen:

The following deviation tests were made on the captioned well during drilling:

215', 1/2 degree 2054', 3/4 degree 2938', 1½ degrees 4177', 1½ degrees 4842', 1¼ degrees 5325', 1¼ degrees

Very truly yours,

W. M. Gallaway

Operator

State of New Mexico)
) ss.
County of San Juan)

Ledged before me this

The foregoing instrument was acknowledged before me this 28th day of September, 1977 by W. M. Gallaway.

Notary Public in and for the County of San Juan, State of New Mexico

My Commission Expires: 7/15/80

DATE <u>Sept. 15, 1977</u>

Operator W. M. Gallawa	У	Delo #12		
Location 2222'S, 1562'W, Sec. 26, T25N, R11W Formation Gallup		County San Juan	State New Mexico	
		Pool Bisti		
Casing: Diameter	Set At: Feet 5312.32'	Tubing: Diameter 2 • 375	Set At: Feet 5261.60*	
Pay Zone: From 5156'	T. 5161'	Total Depth: 5321	Shut In 9-1-77	
Stimulation Method Sand water f	rae	Flow Through Casing	Flow Through Tubing	

Choka Size, Inches		Chake Constant:	С		ودال المستعدد المستعد	
Shut-In Pressure, Casing, 274	PSIG	+ 12 = PSIA 286	Days Shut-In	Shut-in Pressure, Tubing Pump Jack	PSIG	+ 12 = PSIA
Flowing Pressure: P	PSIG	+ 12 = PSIA 33		Working Pressure: Pw	PSIG	+ 12 = PSIA
Temperature: T= 60 °F Ft=	1.000	0 0.75		Fpv (From Tables)		Gravity Fg =

CHOKE VOLUME = Q = C x P, x F, x Fg x Fpv

Q = Calculated from orifice well = ______

OPEN FLOW = Aof = Q
$$\begin{pmatrix} & & & \\ & \frac{P_c}{P_c} & P_w \end{pmatrix}$$

TESTED BY H. E. McAnally

WITNESSED BY W. M. Gallaway



W. M. Gallaway



Memorandum

TO:

L. M. Parrish, Jr.

DATE: September 19, 1977

FROM:

Production Department

PLACE: Farmington, N. M.

Re: W. M. Gallaway Delo #12 well, which is located 2222'/S, 1562'/W, Sec. 26, T25N, R11W, San Juan County, New Mexico completed as a Bisti Gallup gas well.

A shut-in pressure of 274 psig was measured on the casing and a 2" Merla orifice well tester was installed on the casing with a 3/4" plate and a pressure recorder to record the pressure maintained. The casing was turned on through the orifice well tester. The well stabilized after one hour at 21 psig for a period of eight hours when the wellbore started filling with liquid and the well started logging off for the next four hours. At this point the tubing was pumped and the test was continued for an additional 24 hour period. The gas production increased after the pump was started and the pressure stabilized at 21 psig again. This indicated the well has the ability to produce 411 MCF/D at a line pressure of 21 psig.

No gas sample was caught at the time of the test therefore, no gravity can be reported.

This test was conducted at the request of Mr. Gallaway for the purpose of attempting to connect this well to our low pressure system in the area.

If there is any further information needed, please let me know.

H. E. McAnally

Production Engineer

HEM: al

cc: R. E. Johnson

C. E. Matthews

W. M. Rodgers

D. O. Vilven

File

