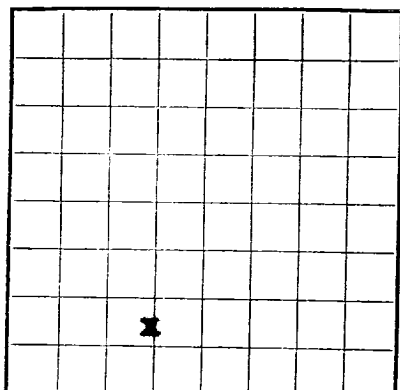




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe, N.M.

SERIAL NUMBER NM-039256

LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company T. J. Livley Address Box 1208, Artesia, N.M.
Lessor or Tract Caswell Silver Field Lynch State New Mexico
Well No. 3 Sec. 28 T. 20 R. 34E Meridian N14W County Lea
Location 990 ft. N. of S. Line and 1980 ft. E. of S. Line of 28 Elevation 3721 DF
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed [Signature]Date October 23, 1959Title Operator

The summary on this page is for the condition of the well at above date.

Commenced drilling 9/14, 1959 Finished drilling October 18, 1959.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3646 to 3655 No. 4, from _____ to _____
No. 2, from 3657 to 3693 No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from None to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>8-5/8</u>	<u>24</u>	<u>8</u>	<u>Smith</u>	<u>1682</u>	<u>Guide</u>				<u>Surface</u>
<u>5-1/2</u>	<u>14</u>	<u>8</u>	<u>Smith</u>	<u>3659</u>	<u>Float</u>				<u>Prod.</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>1659'</u>	<u>450</u>	<u>Halliburton</u>	<u>Cement</u>	<u>Gr. to surface</u>
<u>5-1/2</u>	<u>3659'</u>	<u>700</u>			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 1702 feet, and from _____ feet to _____ feet

Cable tools were used from 1702 feet to 3693 feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing October 23, 1959

The production for the first 24 hours was 180 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Livley, Driller Herentz, Driller

Waters, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>100</u>	<u>100</u>	<u>Surface sands & caliche</u>
<u>100</u>	<u>1610</u>	<u>1510</u>	<u>red beds and red rock</u>
<u>1610</u>	<u>1710</u>	<u>100</u>	<u>anhydrite</u>
<u>1710</u>	<u>3280</u>	<u>1570</u>	<u>salt and anhydrite stringers</u>
<u>3280</u>	<u>3298</u>	<u>18</u>	<u>lime</u>
<u>3298</u>	<u>3438</u>	<u>140</u>	<u>anhydrite and lime</u>
<u>3438</u>	<u>3458</u>	<u>20</u>	<u>broken lime</u>
<u>3458</u>	<u>3490</u>	<u>32</u>	<u>lime</u>
<u>3490</u>	<u>3525</u>	<u>35</u>	<u>sand and lime</u>
<u>3525</u>	<u>3550</u>	<u>25</u>	<u>lime</u>
<u>3550</u>	<u>3655</u>	<u>105</u>	<u>lime and sand - show oil 3646-55</u>
<u>3655</u>	<u>3675</u>	<u>20</u>	<u>lime</u>
<u>3675</u>	<u>3683</u>	<u>08</u>	<u>sand</u>
<u>3683</u>	<u>3693</u>	<u>10</u>	<u>lime - oil 3687-3693</u>
			<u>base of salt - Top of Tansil - 3280' - plus 441</u>
			<u>Top of Yates - 3448' - plus 273</u>
			<u>Top of Reef - 3664' - plus 37</u>

Inclosed herewith:

2 Copies - Livley - Smith CR-Neutron Logs.2 Copies - Sample Description - by L. L. Gunn.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

SECRET
ACTIVITIES DIVISION
JAN 11 1950

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

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It is a common mistake to think that the only way to avoid the problems of the first two methods is to use a third method, the "method of moments". This method involves estimating the parameters of the distribution by equating the sample moments to the theoretical moments. However, this method is also subject to the same problems as the first two methods, and it is not a reliable way to estimate the parameters of a distribution.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "backtracked" or left in the well, give its size and location. If the well has been abandoned, give date, size, position, and number of the well, and the kind of material used. Position and results of pumping or balling.

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

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| 1. 姓名 | 2. 性别 | 3. 年龄 | 4. 民族 | 5. 籍贯 | 6. 职业 | 7. 文化程度 | 8. 婚姻状况 | 9. 健康状况 | 10. 宗教信仰 | 11. 政治面貌 | 12. 其他 |

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| FORMATION RECORD—Continued | | | |
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| FORMATION | TOTAL FEET | TO— | FROM— |
| | | | |